

Yi 2  
7400  
F 8

On preventing Juvenile  
from exhalation.

446 57  
210 15  

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236 36

15  
1524 68

4







"Odia in longum facere, quae recorderet, aucta  
quae promeret."

Lectures on the means of  
preventing Summer & Autumnal  
Fisces. Del Jan<sup>y</sup> 17. 1804. begin p. 19

Origin of Epidemic from bad food,  
water, & earthquakes - how prevented?

4/306/75  
28.  
00.  
26

251  
80  
51



in the present instance  
✓ By this disease I mean morbid excitement  
on <sup>irregular</sup> ~~partial~~ <sup>of a partial nature</sup> action, ~~produced~~ in muscular  
fibres, seated in different parts of the body.



Gentlemen /

I rise in compliance with your  
appointment to deliver as the Subject of my  
oration, the result of the observations of four  
and forty years upon the Summer & Autumnal  
Disease of the United States. V

In considering this disease, I shall  
I enumerate its different forms, & afterwards  
make a few remarks upon them.

I shall mention its causes, & I shall

I shall point out the means <sup>of preserving the system</sup> ~~which have been used~~  
~~of from them, & mention the methods of~~  
~~with success to prevent it.~~

preventing them, by exterminating their causes.

~~I~~ You will perceive at once that I have adop-  
-ted the idea I have taught for many years in  
the University of Pennsylvania by calling the

The different forms of our Summer &  
Autumnal disease may be included under  
the following heads

- 1 Diarrhoea.
- 2 Colera morbus.



+ I pass over here the forms of <sup>indisposition</sup> ~~disease~~ in which this

v That all the <sup>above</sup> forms of disease <sup>differs</sup> ~~are~~  
~~the same in the~~ only in their seat, and  
degrees of ~~the~~ dyspepsias, but are the same  
in their nature, I infer from their appea-  
ring at the same seasons, from their  
changing into each other,  
depending upon the same cause, & disap-  
pearing <sup>at</sup> ~~from~~ the same time.

+ I pass over all those forms of indisposition  
under which the Summer & Autumnal  
Disease sometimes disguise themselves, such as  
head ach - tooth ach - ophthalmia - lumbago &c &c  
like <sup>all the</sup> ~~to some~~ other local affections as mentioned  
by Dr. Sydenham.

Also sporadic cases of all 10 from other  
causes —



3 bilious Colic. 4 Dysentery - 5 Febricula, or what is called in the Southern States inward fever. 6 Mild Intermittent & Mild Remittent. 7 Cholera - 8 or typhus fever. 9 Inflammatory bilious fever, and 10 malignant, bilious, or what is commonly called yellow fever. +

It may appear <sup>strange</sup> ~~odd~~ to such of the members of this Society as have not been my pupils, to <sup>include</sup> ~~consider~~ all the forms of Disease which have been mentioned under one name - But <sup>there are many</sup> I have precedents for doing so in the ~~writers upon~~ <sup>in our</sup> ~~many of the~~ practical books of medicine. <sup>I shall mention but one of them.</sup> ~~but do not~~ The Gout ven-  
-ries not only the limbs, but ~~the head~~ <sup>are written by</sup> every ~~assumed~~ other part of the body, but ~~as does~~  
upon that account distinguished by a plu-  
-ral epithet. <sup>V</sup> ~~The~~ small pox affects with disease  
& pain, not only the skin, but the head, the  
throat, the lungs, the ~~the~~ bowels & the kidneys,



~~of the United States~~



And yet we do <sup>not</sup> find it <sup>has 3</sup> received new names  
from each of those parts in our histories of disor-  
ders. ~~By the summer & autumnal diseases of~~

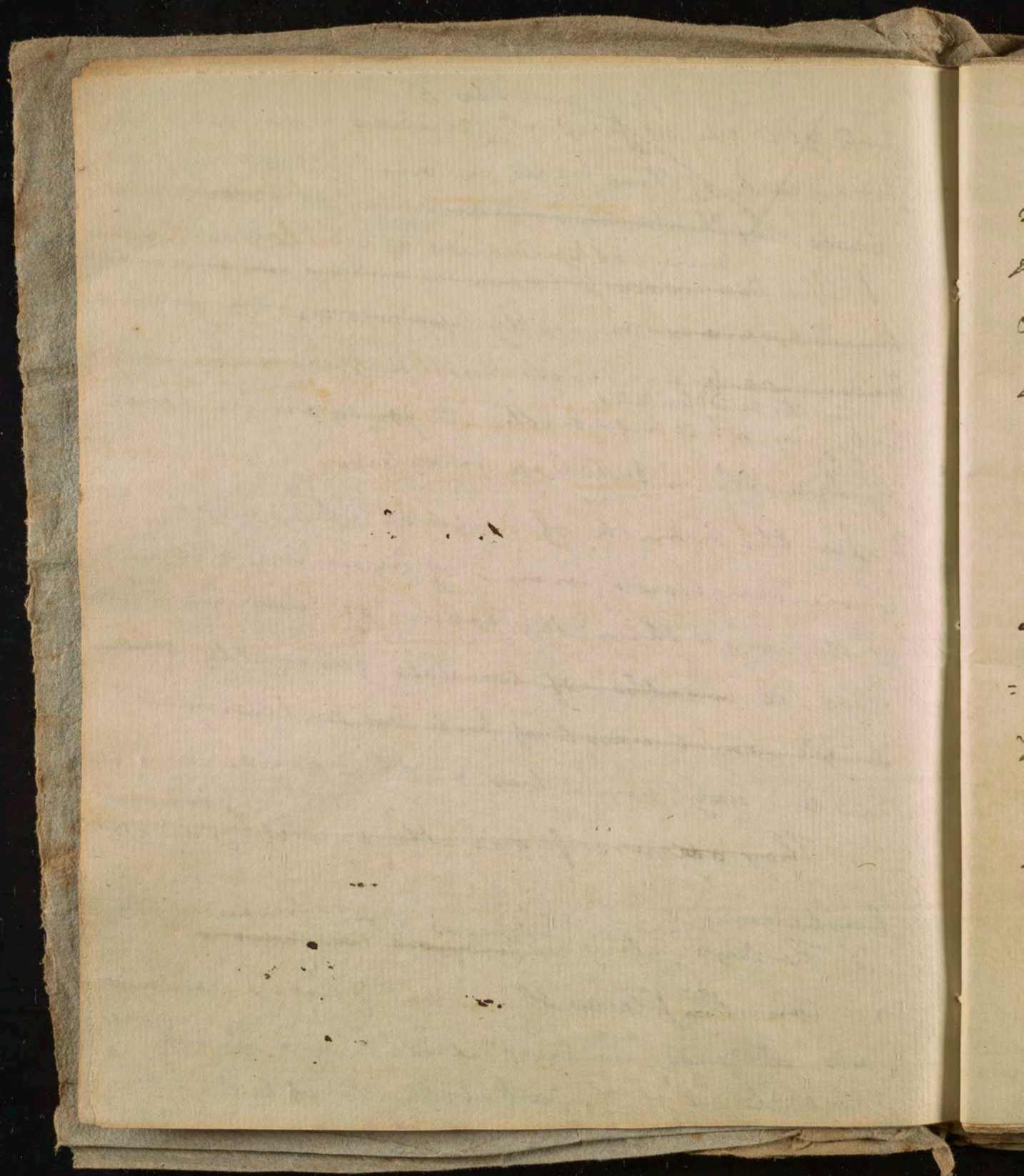
1 The ~~Diarrhoea & Colera~~ <sup>Annual Epidemic of our Country</sup> ~~is generally~~  
~~times appears~~ generally appears in the form of  
~~Diarrhoea~~ makes its first appearance in  
<sup>in the middle states</sup> July, in which month it puts on the form  
of Diarrhoea & Colera morbus.

2 In the month of August it assumes the  
more dangerous forms of Dysentery & Colic,  
with now & then the forms of fever in which  
case, it ~~is either of~~ <sup>consists</sup> generally of a  
~~single or at most of but two or three~~ <sup>terminates</sup>  
in one day, or in two or three days.

~~They also are frequently excited by unripe~~ <sup>or decayed</sup>

~~fruit~~  
3 The Dysentery <sup>appears more frequently</sup> ~~is more common~~  
in country places than in cities. I have never  
seen it epidemic in Philadelphia. The <sup>more</sup> ~~not~~  
cordial diet of the inhabitants of cities pro-  
bably







defends the bowels from the influence of miasmata ~~upon these~~, and determines their action to ~~the~~ the blood vessels in one of the forms of fever.

4 The Dysentery appears chiefly ~~in~~ <sup>is</sup> upon high grounds - <sup>& frequently at the same time that</sup> ~~while other forms appear~~ upon ~~this~~ the declivities of those grounds, or in the plains below them.

5 The different forms of fever appear separately, or together in different years. In the year a mild intermittent

Between the years 1760 & 1766 it appeared <sup>chiefly</sup> ~~chiefly~~ in the form of the what <sup>was</sup> ~~what~~ formerly called nervous fever, and ~~who~~ was often protracted to ~~one and twenty~~ <sup>or</sup> thirty & forty days. In the year 1780 it appeared in Philad<sup>a</sup>.

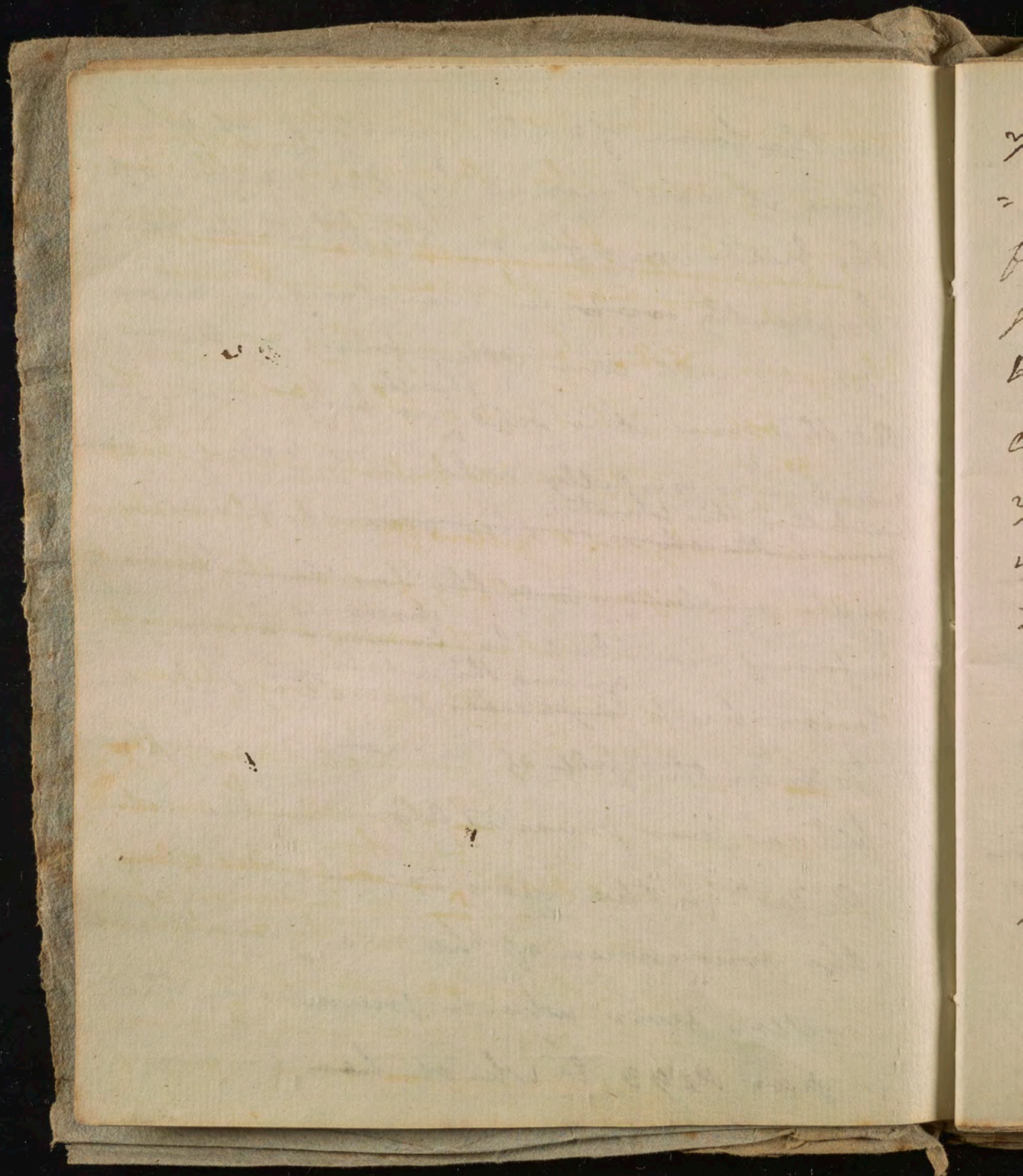


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in the form of mild Remittent at which  
time it was known by the name of  
the break bone fever. The febricula appears  
frequently ~~is~~ in Maryland, unaccom-  
panied with any other form of fever.  
At this time it is said <sup>" though</sup> no body is sick, yet  
no one is perfectly well. Mr Colney <sup>in his</sup> ~~was~~  
~~travels thro' this country~~ ~~much~~ ~~travels~~ with this general feverishness  
of the inhabitants of the Southern States, &  
informed me that he <sup>discovered</sup> ~~found~~ <sup>general</sup> ~~in his~~ <sup>among the inhabitants of</sup> this  
feverishness ~~to~~ <sup>other</sup> ~~spread~~ several of the Southern  
States in the fall of the year. The inflam-  
matory fever prevailed alone in the city of  
Philad<sup>a</sup> in the years 1791 & 1792. It was  
the forerunner of the malignant, or  
yellow fever which prevailed in the  
year 1793, & which has for several







years since has been the solitary episode  
- mis of our city. But again - <sup>some & sometimes</sup> all these  
forms of fever appear together in the same  
~~but apparently independently of each other~~  
season. ~~This was the case in Philadelphia in~~  
~~the year 1802.~~ <sup>to</sup> Sometimes they <sup>I have said</sup> appear into  
each other. This was the case in the

<sup>1802 & 3</sup> years 1803. The mild Intermittent changed  
into a malignant yellow fever & the malignant  
yellow fever after the 3<sup>rd</sup> day put on the form of  
a mild Intermittent. ~~The same malignant~~  
~~fever~~ and sometimes of a nervous fever.

<sup>the same forms of</sup>  
6. ~~The Summer & Autumnal~~ Diseases differ  
in different years in <sup>this</sup> ~~its~~ symptoms - in <sup>this</sup> ~~its~~  
signs of life and death. <sup>in its modes of cure.</sup>  
~~the~~ Obstinate obstinacy attended the malignant

fever of 1793 a Diarrhea attended the same  
form of fever in 1802, and a moist skin was  
a general symptom of ~~the~~ it in 1803. a



V Diff<sup>r</sup> Const<sup>n</sup> afford diff<sup>r</sup> grades of disease - also residence  
as new comers in West Indies.

Diff<sup>r</sup>ent grades of Activity in Miasmata - as from  
water to 9<sup>th</sup> Street.

- 1 V <sup>25</sup> affects Lungs Colours &c - ages &c nations -  
~~Why~~ why fresh West Indians escape it & we not.
- 2 also differs in regarding more or less it:  
- citing Cause D<sup>r</sup> Mungie's story.
- 3 It appears earlier, or is more protracted - on  
west near Confluence of fresh & salt water. Illustr<sup>d</sup>.  
its predis<sup>n</sup>: as in Ticond: from 2 Sept<sup>r</sup> &  
is yield to frost &c - heavy rains -  
It will be expected I add Conf<sup>r</sup>: - in what  
instances - never Epidemic from it. <sup>like consumption</sup>
- 5 They are most apt to affect Strangers. <sup>more</sup> obvious  
in Carol<sup>a</sup> than in middle States, where the coldness  
of winter &c  
follows clearing Country.
- 6 Old people kept alive by them.
- 7 Different Determin<sup>n</sup>: as head - Stomach - limbs  
& above all Liver. In 1791 & 1792 I depat<sup>d</sup> very common.  
& follow course of winds. Smithill.



4  
7  
Sore throat was a favourable symptom in  
malignant  
the fever of 1793 - but a fatal one in the <sup>same</sup> fever  
in 1798. An hemorrhage from the gums preceded  
which &  
Death in 1793, but was followed by a recovery  
in nearly all the cases in which it occurred  
on the 5<sup>th</sup> day in 1798. Copious bleeding, & strong  
mercurial issues were the ~~most~~ most effectual  
remedies in the <sup>malignant fever of</sup> year 1793. The same ~~year~~ <sup>fever</sup>  
1803 yielded to moderate bleeding, gentle purges  
early blisters  
& copious sweats in the year 1803. V

7 The Disease under consideration differs in  
its symptoms, ~~being its nature~~ <sup>its nature</sup> in different  
parts of the same ~~long~~ season. It sometimes  
comes on like a heat of pyrexia, and goes off w:  
the gentleness of a domestic animal. Again  
its puts on an opposite character. Sometimes  
it makes its first appearance in the form  
of a Dysentery, & changes in its course  
into malignant fever. Dr Deval

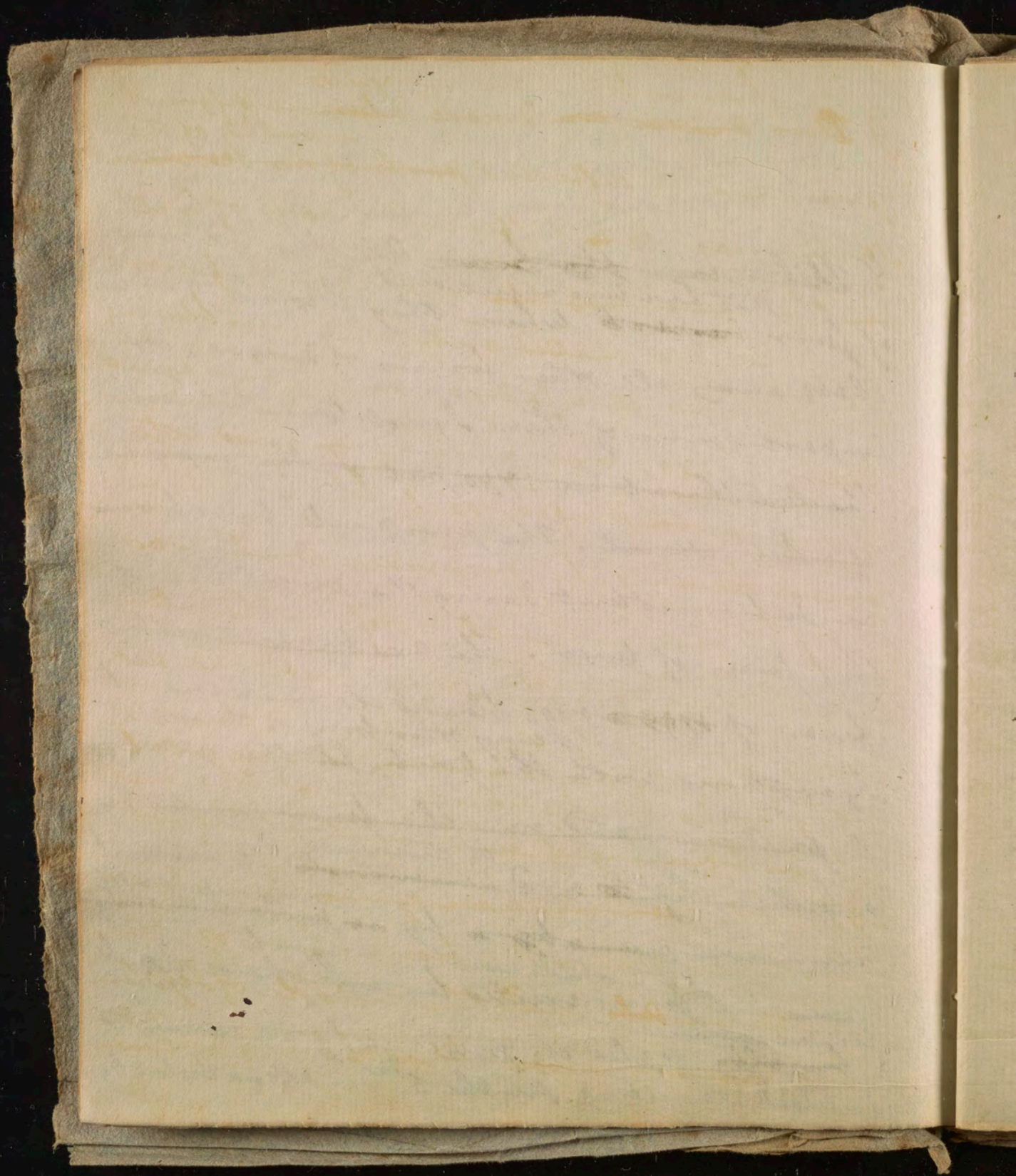


visit -  
sometimes known on the first, again not so -  
V. ~~by~~ yellow pines known first visit - in 1793  
not so in 1802 & 1803.



8 ~~Whence the~~ <sup>that have been mentioned</sup> All the forms  
 of fever ~~infects~~ when they become epidemic  
 chase away all other forms of disease, or  
 impart some of their symptoms to them.  
~~The one that in 1780 put on the symptoms~~  
 of a Remittent. The purpurile fever becomes  
 an Intermittent during the prevalence of  
 that form of fever. The ~~malignant~~ yellow  
 fever of ~~1793~~ 1793 blanded its malignant  
 symptoms with the gout, <sup>every other form of disease.</sup> In the year 1798  
 it ~~predominated over the fever excited by~~  
~~a broken leg~~ <sup>it discovered</sup> and ~~demonstrated~~ its universal  
 Dominion ~~over~~ <sup>mixing with</sup> by an ~~predominating~~  
<sup>which were</sup> accidents, ~~over the fever excited by a broken leg,~~  
<sup>in one instance</sup> finally sealed its presence by an unexpected  
 black vomiting on the 5<sup>th</sup> day after a broken leg.







Summer & Autumnal <sup>yields</sup>  
 9 This ~~autumnal~~ Disease differs in different  
 years, and in different <sup>months</sup> parts of the season.  
 Same year to a different modes of cure.  
 In the year 1793 the malignant fever  
 of the year 1793 <sup>required</sup> ~~yields only~~ to copious bleeding,  
 strong purges & a salivation. The same  
 fever in 1803 was cured by a moderate  
 bleeding, <sup>active</sup> gentle purges, early blisters, and  
 copious sweats. The peruvian Bark was  
 exhibited with universal success in the inter-  
 mittents of 1781, the same medicine did  
 harm in the intermittents of  
 1794. <sup>Bleeding proved fatal</sup> in the malignant fever of 1793 in  
 the ~~in~~ beginning of the month of August.  
 After the diminution of the stimulus of  
 heat was abstracted from that of Mias-  
 mata ~~in the~~ near the middle of September  
 the ~~same~~ <sup>after</sup> ~~usual~~ blood & vessels rose under



v Dr Blane is yellow skin only as



the use of the ~~same~~<sup>10</sup> ~~same~~ lancet, but finally  
became its ~~general~~<sup>and of</sup> ~~and~~ principal and  
most successful remedy.

10 The Summer & Autumnal Differ in its  
degrees of mortality in different years, &  
sometimes in different parts of the same  
Season. — ~~The Remitting for the~~  
few recovered from the malignant fever of  
1802 — a few died of the same fever in the  
year 1803. The malignant fever of 1793 was  
early fatal when treated with ~~the~~ <sup>depleting</sup> ~~remedy~~  
— dies in system, but it resisted <sup>their whole</sup> ~~the whole~~  
force of ~~these remedies~~ <sup>of medicine</sup> in the succeeding month.  
This difference in the mortality of the yellow  
fever is not confined to the United States.  
Dr Halliday lost but

while Dr Hoare acknowledges that ~~the~~  <sup>seldom</sup>  
most in more than 2 to 3 in 4 recover



✓ I shall only add two remarks. 1 Study  
Study diseases in their connections with each  
other & muscular motion <sup>ch</sup> as we see in Vol. 11  
on epidemics  
2 Study every Epidemic every year.

✕ How do they act? Stomach - lungs - vessels.



in the most successful practice on the Island  
of Jamaica. — It would seem as if dis-  
~~cases~~ be foreign to the ~~des~~ design of this  
discom to inquire into the Causes which  
produce the variety in the forms, grades, &c  
of our Summer & Autumnal disease.  
I shall only observe that ~~most of them may~~ <sup>they are chiefly</sup>  
~~be discovered~~ to be sought for in the sensible  
& insensible qualities of the Atmosphere &  
in the course of winds, and in the qualities  
of the ~~element~~ Aliments of different years.

we come next to mention the Causes of  
the disease which is the subject of our  
oration<sup>x</sup>. These are chiefly

~~the~~ ~~those~~ while foreign Countries  
are obliged to look for their Epidemics in  
exhalations from Volcanos & wells, or  
springs of water, ~~which are~~ in addition to



V They are more or less active according to  
the Sources from whence they are derived. The  
exhalations <sup>from</sup> filth <sup>is</sup> more active, than in  
~~those which~~ ~~arise in the~~ from marsh exha-  
-lations, & the exhalations <sup>in cities</sup> from Dochs & cellars,  
& the hold of Ships more active than from  
Streets & gutters



putrid exhalations from ~~an~~ vegetable & <sup>bad water</sup> animal matters. ~~we~~ are under no necessity of extending our views beyond the last source that has been mentioned to account for our annual Epidemics. Upon the subject of exhalations in our Country, I shall make the following remarks. —

- 1 They ~~consist of~~ <sup>are derived</sup> chiefly ~~of~~ from putrid matters of a vegetable nature. These are
- 2 These exhalations are the product of <sup>certain degrees of</sup> heat & moisture. Their most productive sources ~~of~~ are inoffensive when dry, or covered with water.
- 3 They are conveyed to <sup>a</sup> considerable distance by the winds. In some instances to two miles. M<sup>r</sup> Lempriere mentions some facts which prove they are carried miles in the islands of Jamaica.
- 4 They are most active <sup>in</sup> after the setting <sup>evening, and</sup> of the sun,



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in the morning. These are least so in middle of the day, and night.

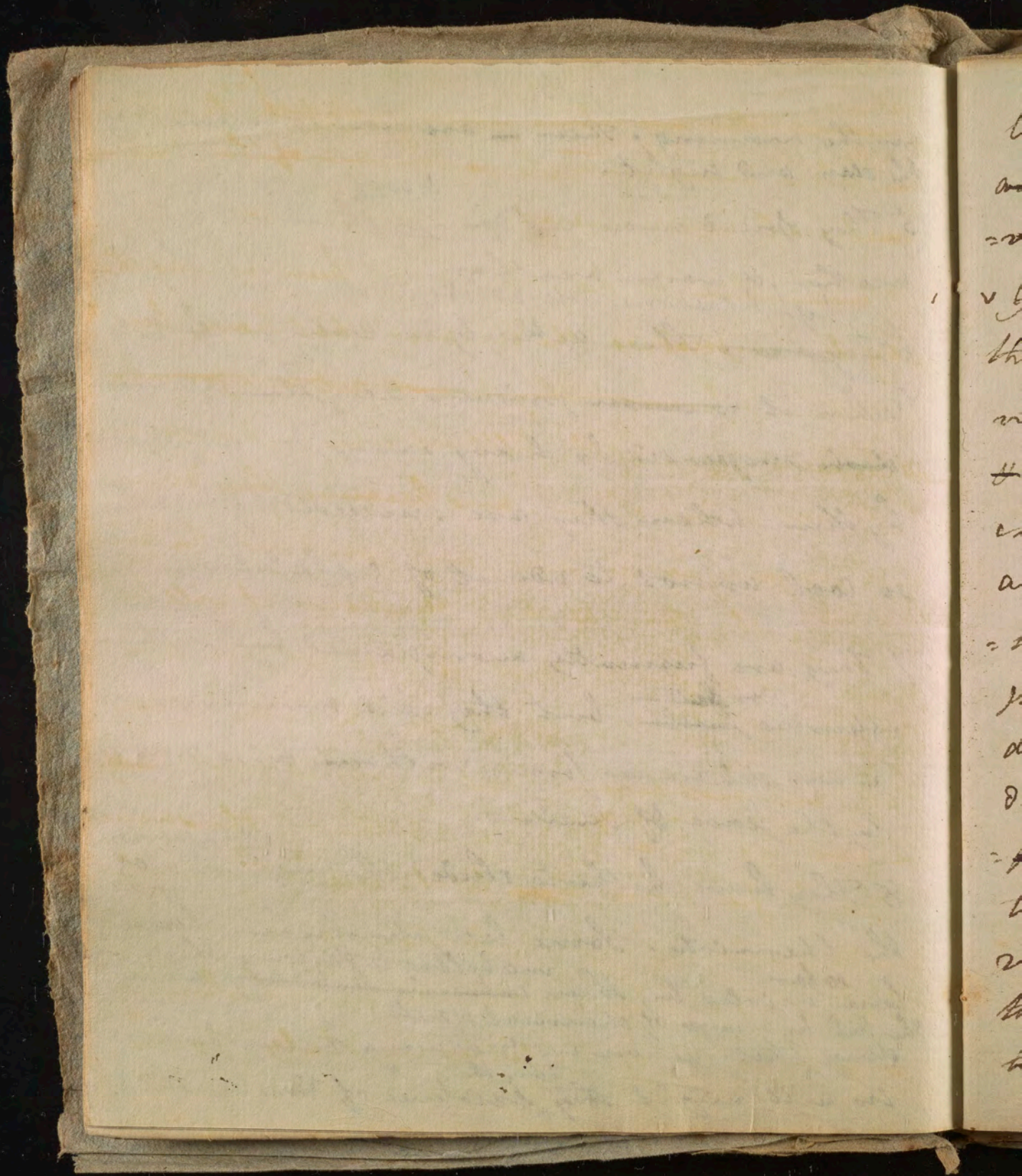
5 They spread more in <sup>& cool</sup> Damps, than in dry weather, & warm weather.

high situations - see vol. 5: p 105  
6 They ~~are~~ their activity is destroyed by cold <sup>they are</sup> when it is ~~is~~ produced ice. It is likewise ~~destr~~ suspended by heavy rains, & destroyed by them when they are succeeded by weather so cool, as not to admit of exhalation.

7 They are frequently accompanied by with an offensive <sup>odoriferous</sup> smell, but they exist sometimes in a very delicious form, without being perceived by the sense of smelling.

8 They have hitherto eluded the inquiries of the Chemists. Some late physicians have <sup>so far</sup> been misled by their <sup>inability to discover them in</sup> ~~inability to discover them in~~ <sup>as to</sup> the air by means of chemical agents <sup>deny the</sup> during their action in producing bilious diseases. As well might they <sup>deny the</sup> existence of odors in the air.







become they are alike ~~impenetrable~~ <sup>for</sup> they like  
 one alike ~~impenetrable~~ <sup>resist the</sup> to the test of the Experi-  
 mental experiments.

v. 9 ~~Lesson~~ <sup>It</sup> has likewise been asserted that  
 they do not produce the diseases that have been  
 mentioned because, ~~they do not act uniformly,~~  
 & because some of the filthiest cities in Europe are  
 exempted from them, and because they do not  
 act uniformly in our own Country. In an-  
 swering the first of these objections, it will be  
 proper to remark that filth & dirt are two  
 distinct things. The Streets of a city may be very  
 dirty, and ~~not filthy~~ that is, covered with ~~impure~~  
<sup>and composed of inoffensive</sup>  
~~filthy~~ clay, or sand, or lime, & the at the same  
 time be free from ~~those~~ <sup>those</sup> filthy veg: & animal  
 matters which by putrefaction contaminate  
 the air. This I believe is the case with Lisbon, &  
~~some~~ some of the cities in Italy. To the

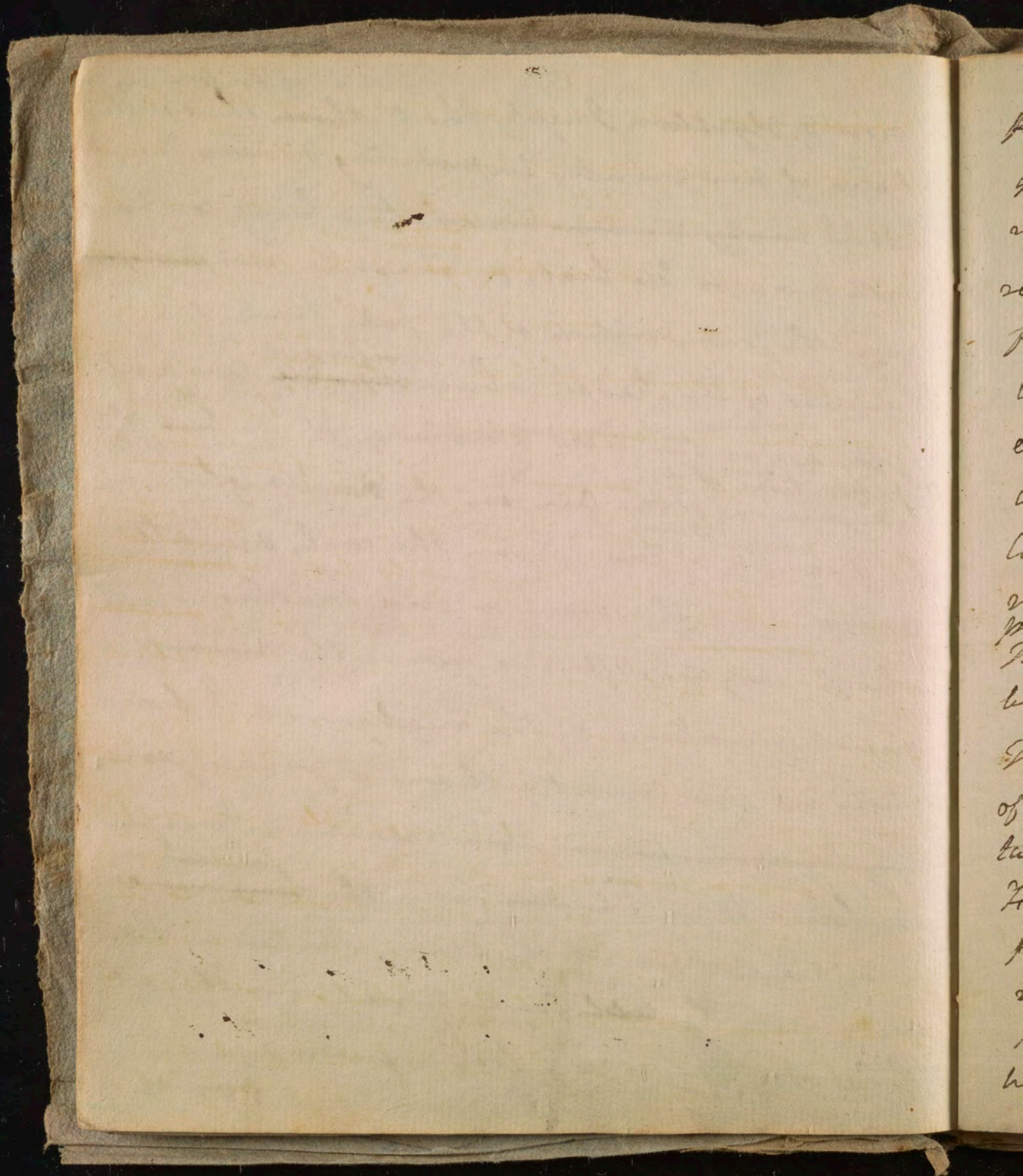


✓ a similar, ~~and~~ want of uniformity  
appears in the ~~production~~ of operations of our  
climate appears in the like equality of  
grain  
our fruits & vegetables of all kinds



second Objection I reply that ~~these~~ <sup>the want of Uniformity in</sup> the exhalations of our Country in producing diseases, depends upon ~~many circumstances~~ <sup>this being combined</sup> with more or less heat, or moisture, and perhaps upon the disposition of the body from the Aliments of the Season. But <sup>different</sup> ~~opposite~~ currents of winds, or the total absence of Wind - <sup>upon</sup> ~~but the~~ Disproportion of temperature of the Air in the Day & Night - upon the Quantity of dew - upon the early or late appearance of warm or cold weather, all of which vary in different years. The <sup>more</sup> ~~former~~ frequent prevalence of the malignant bilious fever in our Country, than in former years, may be accounted for upon requires a specific explanation. The ~~fever~~ <sup>longer</sup> ~~from~~ <sup>more</sup> encroachment which the heat of Summer has made upon the ~~cool~~ Autumnal months a longer period is given for <sup>the generation of</sup> ~~can greater accumulation~~ - tion of

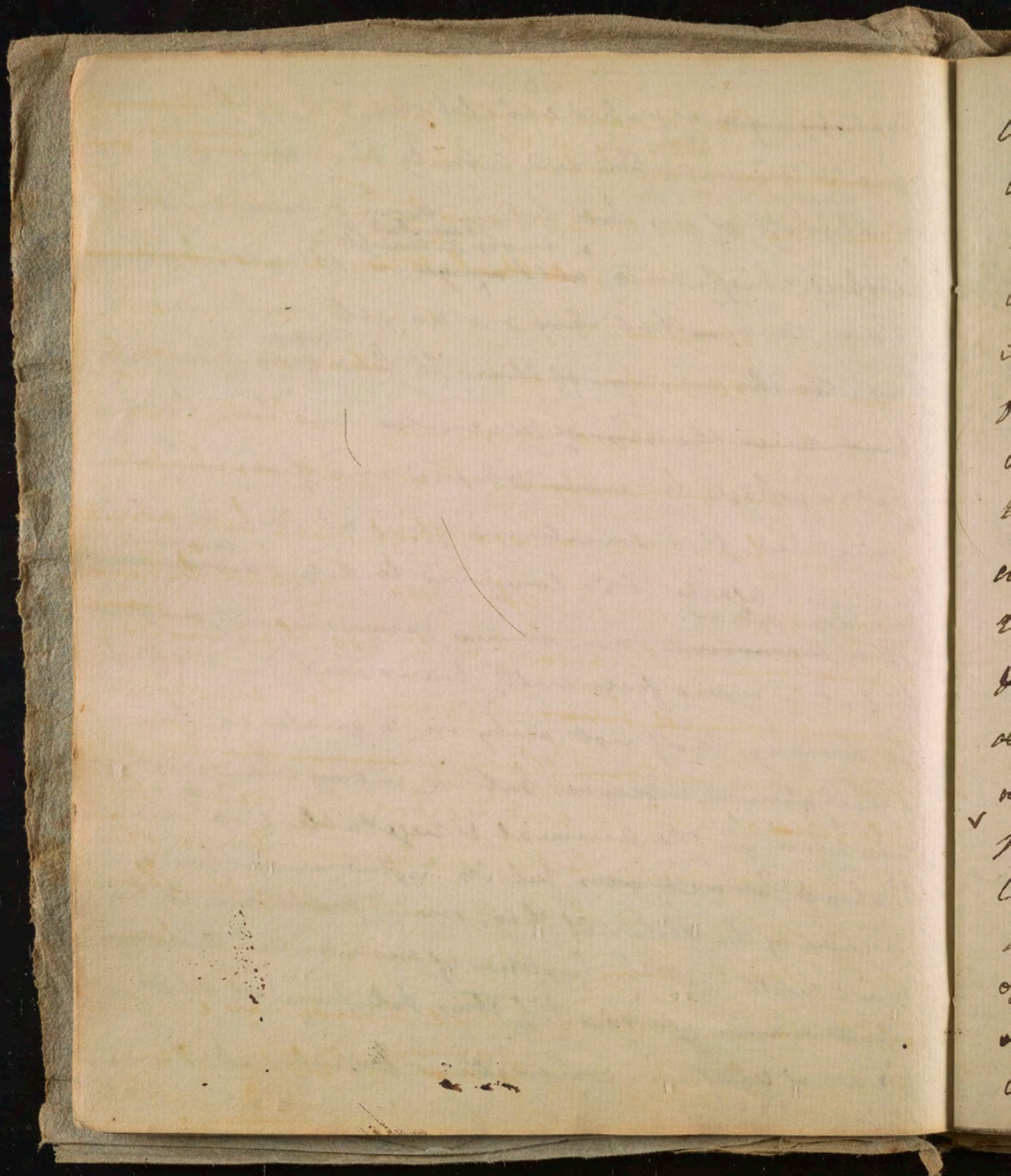






~~purifying~~ of putrid exhalations, and probably for their  
 greater concentration and activity. But the <sup>late</sup> increase <sup>in</sup> of  
 malignity of our ~~hitherto~~ <sup>hitherto</sup> disease must be  
 resolved chiefly into <sup>a more active state</sup> ~~a change~~ in the atmosphere  
 from causes that ~~they~~ are as yet unknown to  
 us. ~~To the existence of this~~ It has <sup>was</sup> been observed  
 ever ~~since the days of Hippocrates~~ <sup>by</sup>, and has been  
 acknowledged by many physicians of <sup>all ages &</sup> ~~various~~  
 countries. It is sometimes general over a whole  
 nation, again it is confined to cities <sup>districts</sup> & ~~provinces~~ <sup>states</sup>.  
 It is ~~transient~~ sometimes permanent, & ~~again~~  
 but it is more frequently transient in its effects.  
 It discovers itself not only in a greater excitement  
 of the system in diseases, but in many changes which  
 take place in the animal & vegetable creation. Even  
 fishes & fowls ~~feel~~ feel its influence in their watery  
 portion of the globe. Of this, many proofs are to be  
 met with in the histories of pestilential diseases.  
 But ~~missing all this~~ <sup>Of this solution of the</sup>  
 want of uniform connection between the summer







& Autumnal Disease of our country, & of the most  
~~appearance of the bilious yellow fever is~~ <sup>bad water & dirt - just</sup> ~~amongst us~~  
~~and the putrid exhalations be~~ <sup>not</sup> admitted, I will  
add a fact that ~~establish~~ <sup>all</sup> ~~their causes~~ <sup>is</sup> ~~be derived~~  
in favor of ~~them~~ its being derived exclusively  
from in all its forms from that source only,  
and that is - there never was - While I admit  
the want of a uniform that putrid exhalations  
do not from the causes that have been admitted  
uniformly, or in successive years produce <sup>any</sup> bilious  
& malignant diseases. I will add that they <sup>have</sup> ~~do~~  
~~do not exist~~ ~~themselves~~ it never has existed in  
any form <sup>independently of</sup> ~~without~~ them. Examined from the  
plagues of Athens, and the intermittents of  
Campania, down to the malignant fever of  
Philadelphia, and the intermittents of the shores  
of Skunkkill, every in the year 1803, every form  
of Summer & Autumnal disease has existed in  
only in the vicinity of <sup>noxious</sup> ~~putrid~~ exhalations. It is



✓ of these fevers ~~the~~ nature sympathizes in  
m p 21. & p 22 D

✓ all the two ~~states~~ of Summer & Autumnal  
Disease originate from putrid exhalations. I  
have mentioned all their sources, & the laws  
which govern them formerly. we

+ first mention all its sources ~~from~~  
vol. iv also the 11 forms of autumn fever  
external & internal.



true these exhalations have not ~~only~~ always been  
 derived from putrid vegetable & animal matters. There  
~~are~~ equally baneful or sickly exhalations ~~have~~  
 spring from the bowels of the earth after an Earth-  
 quake, and from <sup>figures</sup> ~~calves~~ in mountains, & from  
 wells, and pools of water have now often produced  
~~epidemics~~ epidemic fevers, but these may be con-  
 sidered as <sup>of an accidental or</sup> sporadic nature. They ~~have not~~  
 appear but rarely, and seldom return in the  
 same country. They are like the cases of malignant  
 fever which are produced by a poisonous dose of opium  
 or Corrosive Sublimate compared with those which  
 arise from the ordinary exhalations of our Docks  
 and Cellars. nor shall I here except the occasional  
~~fever~~ Epidemics which have <sup>arisen</sup> from Scanty, or  
 unwholesome diet in <sup>distant ages &</sup> ~~foreign~~ foreign countries.  
 They occur but rarely, & ~~for~~ should constitute no  
 Objections to ~~objection~~ <sup>to the truth of the general re-</sup>  
~~mark~~ mark which has been delivered. During the prevalence  
 V<sup>+</sup> we proceed in the 3<sup>rd</sup> place to ~~mark~~ enumerate



V For this purpose it will be necessary to mention  
the signs of their presence in this atmosphere when  
they are disposed to produce the highest grade of  
malignant fever. These signs ~~as~~ I shall mention  
such signs as are external, & <sup>by</sup> such as  
appear in the human body. The signs of a  
pestilential ~~atmosphere~~ <sup>Epidemic</sup> appear

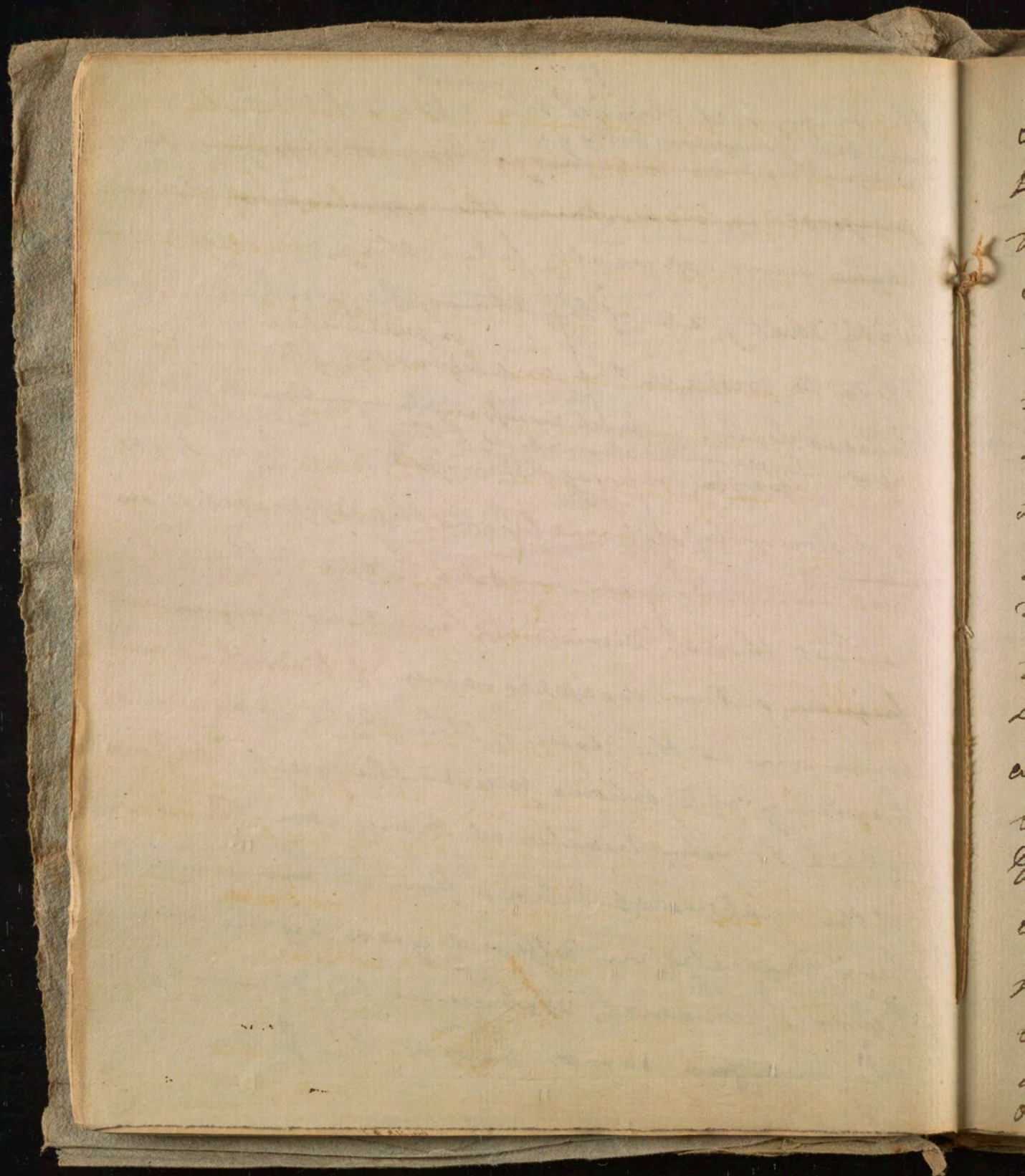


the means of obviating the effects of these exhalations  
upon the human body. ~~upon the human body.~~ The first step for this

purpose is to ascertain the approach of I shall  
begin more especially when they are accompanied  
with that state of the atmosphere which disposes  
them to produce the malignant <sup>or pestilential</sup> form of  
bilious fever. ~~first step is to mention its present~~  
~~signs.~~ ~~These are external, & 2 they are in the body.~~

to discover by external signs the approach of the  
~~existence of~~ pestilential diseases, in order to guard the body  
against them. Diemerbroeck mentions that <sup>and</sup> ~~greater~~  
~~frequent~~ sudden disappearance of birds that ~~are~~  
common at the season of their flight, & <sup>a</sup> ~~the~~ greater  
frequency of abortions preceded the great plagues  
which he ~~also~~ describes at ~~Emmeren~~. The approach  
of the malignant bilious fever in <sup>this city has</sup> ~~our country~~  
has indicated in different years by the following  
signs. 1. <sup>In the</sup> unusual violence in the diseases of  
the previous year or season. The intermittents







of 1791. & 1792 <sup>20</sup> ~~did not yield as formerly to~~ <sup>appeared so inflammatory as</sup>  
~~this type~~, as to require bleeding, to prepare them  
for the use of the Bark, & the <sup>depletions</sup> ~~plurified~~ of most  
of the Springs which preceded our malignant  
fevers have called for more depleting remedies  
than ~~the same diseases~~ in other years, to cure  
them. Nature is uniform in these preliminary  
signs of ~~for~~ greater force in the diseases which  
precede pestilential fevers in other countries.  
They occurred according to Sydenham in the  
fever which preceded the great plague in  
London in 1665. They were observed likewise in  
a fever which ~~of~~ this, as there are many  
hundred instances in the records of medicine.  
Even Dr Christolm whose ideas of pestilence  
exclude <sup>its</sup> ~~all~~ connection with ~~external~~ the  
state of the atmosphere, has ~~now~~ added his  
testimony to the evidence of Ages in favor of  
this remark, & thereby refuted his <sup>own</sup> ~~that~~ doctrine  
of its contagious & importable ~~and~~ nature. He



V. total suspension of diseases of all kinds just  
before the appearance of a malignant epidemic.  
~~The months of~~ ~~in 17~~ ~~were~~

Unusual healthiness in the months of  
preceded the furious fever of

I have ascribed this to the <sup>preternatural</sup> stimulus of the  
atmosphere ~~impregnated with~~ ~~oxygen~~ overcoming  
the action of weak diseases.

It would seem as if <sup>we vol. 3. p. 180 facts from Diamant</sup> <sup>1752.</sup> great & mortal epidemics  
had like the planets, <sup>that</sup> satellites revolving round  
them, for they are not only preceded, but accom-  
panied & followed by diseases which appear to  
derive reflect back upon them some of their  
violence & malignity. But there is sometimes an  
exception to this remark, for we <sup>now & then</sup> ~~sometimes~~ see a total  
in above V



mentions its being preceded by a violent E. -  
 -scaples in *McVie*, & accompanied by a  
 small pop equally malignant with itself  
 in <sup>another</sup> the island. of *It O* + <sup>2</sup> Sometimes there is a

2 The malignant form of bilious fever has  
 been preceded by a general fallowings in the com-  
 -plexions of our citizens. This has been noticed  
 by strangers. It occurs in other countries subject  
 to the same fever.

2 They appear in  
 3 It has been preceded, & accompanied by winds

from unusual quarters, or by unusual calms.  
 The winds have blown for more constantly from these  
 during our political years than in former years.

3 Turbidity or mist in the air. Dr Wilson, *He* says  
 this generally precedes a sickly season in the Delaware State.  
 [The same] a sickly calm attended the epidemic  
 of 1793 in Philadelphia. A similar state of the air  
 is described by Dr Baynard during the last plague  
 in London. His words are "A general calm &  
 serenity of weather, as if wind & rain had been ba-  
 -nished from the realm. I could not observe the  
 least breath of air to stir a fan, or weather cock.  
 Fires with great difficulty were made to burn, &  
 the very birds would pant for breath more."



v Diemerbroeck's facts - see Ambrose Parey's too  
p: 3 of fever in 1798.  
predict as of Comets & eclipses  
fevers.



22

especially ~~kites & crows~~ who were observed to fly more heavily than at other times."

<sup>they appear in</sup>  
It has been preceded by uncommon sickness & mortality among many birds & beasts, more especially wild pigeons & cats.

The common house fly has disappeared from our ~~uncommon insects of home appeared, & cities,~~  
<sup>cities &</sup> ~~and~~ mosquitoes have been multiplied, & some new insects have appeared just before, or during

the prevalence of our late malignant Epidemics.  
The leaves of certain trees have emitted an unusual smell, and of others <sup>the leaves of others have</sup> fallen prematurely, and the fruits ~~of~~ <sup>the</sup> ~~of~~ <sup>the</sup> fruits have been left in fire, or of an inferior quality in the summer previous to several of our malignant autumnal

fevers. —  
Dr Oliver has taken notice of a change from ~~the white to a dark color~~ <sup>the paint</sup> upon the boats in the harbour of Boston being changed to a dark color during the prevalence of the malignant bilious fever in Boston in the year  
The



<sup>Admiration</sup>  
✓ fatigue from light exertions -- hands when rubbed  
emitting smell like Hep. Sulph. - some degree of burning  
from wine in the mouth -



The signs of the presence of exhalations in the human body ~~human ~~exte~~~~ which produce a yellow fever are as follow.

- 1 A sudden cessation of an old, or chronic disease, or a conversion of a periodical into a continual disease. ~~A gentleman~~ Of this there were many instances in Philad<sup>a</sup> in <sup>the</sup> year 1793.
- 2 The breaking out of old sores, <sup>of fresh</sup> or eruptions upon different parts of the body. The prickly heat & the nettle rash are the effects of the de

I have observed <sup>or even</sup> a head ache, ~~or~~ a decay of appetite, ~~or~~ costiveness, a diminished, or increased secretion of Urine, constant sweats, <sup>or sometimes of a putrid nature</sup> or a dry skin, wakefulness, or a disposition to cough, ~~or~~ <sup>on</sup> protracted sleep, <sup>a preternaturally frequent</sup> ~~or~~ unusual vivacity, or depression of spirits <sup>or</sup> yellow color in the face - a red, or yellow eye - <sup>or</sup> ~~have all been observed~~ in persons who were exposed to the exhalation of our annual epidemics, and who ~~did~~ were not confined, & who could not believe they were predisposed by any of those symptoms to the disease.



v The first where flight is practicable it  
should be resorted to in every case. The  
heights of Germantown & Darby have for many  
years afforded a secure retreat to the citizens of  
Philadelphia from their late annual Epidemic.  
~~Since the western parts of the city~~ In gathering  
place are infected by ~~foul air~~ morkid air, care should  
be taken not to expose the body to great heat,  
or fatigue, for ~~the~~ where the system is tainted,  
the least exciting cause <sup>souses it into action</sup> often renders flight in-  
-effectual by inducing the disease, ~~and~~ <sup>&</sup> ~~in some~~  
-times death, where safety was sought. But where  
flight is impracticable, or inconvenient a  
safety should be sought for in such means as  
raise the ~~series~~ tone & strength of the system.  
These are ~~of~~ <sup>of</sup> depleting Resandis nature. That of them



The means of preventing the Summer, & autumnal disease of our Country come next under our consideration. I shall <sup>first</sup> mention, such as ~~as~~ have been most effectual in ~~def~~ guarding against its most malignant form, and afterward, take notice of such as are proper <sup>proper for</sup> ~~the~~ individuals. Then of 2 in its more mild grades. ✓  
 means to defend whole communities.

~~The diet should be consist chiefly~~  
~~I of the means proper for individuals. ✓~~

① The System when impregnated with virus:

mata is under the influence of a preternatural stimulus, and from the suppression of customary exertions is often in a plethoric state. The prophylactic remedies should therefore be such as are calculated to lessen this stimulus, & to obviate the preternatural fulness of the bloodvessels.

~~They say the first remedy for this purpose~~  
 ② is a spare diet, ~~conformed~~ accommodated to the greater or less degree exposure of the body to the action of miasmata & to the greater or less degrees of labor, or exercise which are taken. ~~for the~~



who live wholly upon vegetables,  
V The Bramins escape the malignant fevers  
of India, while the Europeans who eat  
animal food die in regiments around them.  
People in Virginia who live near gardens ~~are~~ <sup>are</sup> ~~not~~ <sup>not</sup> ~~plagued~~ <sup>plagued</sup> by fruit  
~~the~~ <sup>is</sup> ~~the~~ <sup>the</sup> ~~fever~~ <sup>fever</sup> of the Island.  
The free negroes of South Carolina owe their  
exemption from the bilious fevers of that state  
to the ~~the~~ same cause while their masters often  
die, or suffer with it. A low diet acts in two  
ways. ~~It~~ <sup>not only</sup> ~~opens~~ <sup>opens</sup> the quantity of blood, & the force  
of stimulus upon the blood vessels, but it <sup>induces</sup> ~~impacts~~  
~~also~~ <sup>also</sup> ~~such~~ <sup>such</sup> a debility upon the system, as disposes  
it to vibrate more readily under the impression of  
the anemata - thus the willow ~~undulates~~ <sup>undulates</sup>  
~~a~~ <sup>a</sup> ~~long~~ <sup>long</sup> ~~of~~ <sup>of</sup> ~~before~~ <sup>before</sup> ~~a~~ <sup>a</sup> ~~blast~~ <sup>blast</sup> of  
the wind, while the embanking bank is torn up  
by the roots. It is from this influence of vibratibility  
in the systems of women in the West Indies, ~~as~~  
acquired by their temperance that they escape the  
endemic fevers of that the Islands. The



In year 1793 I lived for nearly 8 months wholly upon  
~~with~~ vegetables & a coffee with a small quantity of  
 with vegetables, but I ~~do~~ for cases of great ex-  
 -posure to an ~~injure~~ infected atmosphere ~~the~~  
 with but little exercise, the diet should be  
 simple in its quality, & small in its quantity.  
 A little salted <sup>also a little cayenne pepper</sup> meat ~~when~~ taken with ~~with~~  
~~vegetables, prevents the stomach & also a small~~  
~~quantity of the cayenne pepper prevents an~~  
 undue languor of the stomach from its want  
 of its customary aliments. Where the body  
 is ~~by~~ but little exposed to foul air, ~~and~~ and  
 much exercise taken, Broths, & a little  
 wine, or malt liquor may be used with  
 the fruits & garden vegetables of the season with  
 Advantage. ~~The diet~~ The change from a full  
 to a low diet should be made gradually. <sup>when</sup> ~~when~~  
 made suddenly, it <sup>increases the predisposition</sup> ~~increases the predisposition~~  
 to disease by accumulating the excitability of



more than protestants from it in plague. Howard. also in  
1793.

v also by fires. ~~to~~

Laine de



the system. ~~Long fasting to be avoided. Cathartics sufficient to open the system of them~~  
 a 2: ~~depleting remedy is~~ <sup>to open the system of them</sup> ~~gently laxative medicines.~~  
 2: ~~gently laxative medicines have been found~~

effectual in many instances in preserving the body from ~~the~~ an attack of malignant disease.

Thousands in Philadelphia owed their lives to the occasional use of a ~~few grains of Calomel,~~  
 full, a few grains of Rhubarb, ~~or~~ <sup>a</sup> Spoonful  
 of Castor Oil during the ~~last autumn~~ <sup>autumn</sup> of 1793

a 3: ~~The fulness of the blood vessels and the predisposing~~  
~~depleting preventive consists in~~ <sup>increased excitement of</sup>  
~~the way be obstructed by keeping up a con-~~  
~~stant perspiration or rather a moderate degree~~  
~~of perspiration discharge from the pores.~~

of sweat by means of warm cloathing, and  
 hot cloaths. <sup>excretion</sup> The discharge which takes place by  
 the skin is a discharge of the first excreta. I  
 never knew an instance of a person living at-  
 tached by our malignant fever in whom <sup>this discharge</sup>  
 was constant, and equally diffused all over  
 the body. Its effects have been equally salutary  
 in preventing the plague. ~~So~~ So well known



v upon the System as disposes it to vibrate  
more readily under the impression of the  
miasmata. Thus the willow rises after  
bowing before a blast of Wind, while the un-  
bending Oak is torn up by the roots. It is  
from this Vibrability of the Systems of women,  
in the West Indies, that they escape the endemic  
fevers of the Islands.



is this fact, that Mr Volney tells us in his tra-  
vels into Spain, that the common salutation dur-  
ing the prevalence of the plague, is - "How do  
you - But "do you sweat freely"?

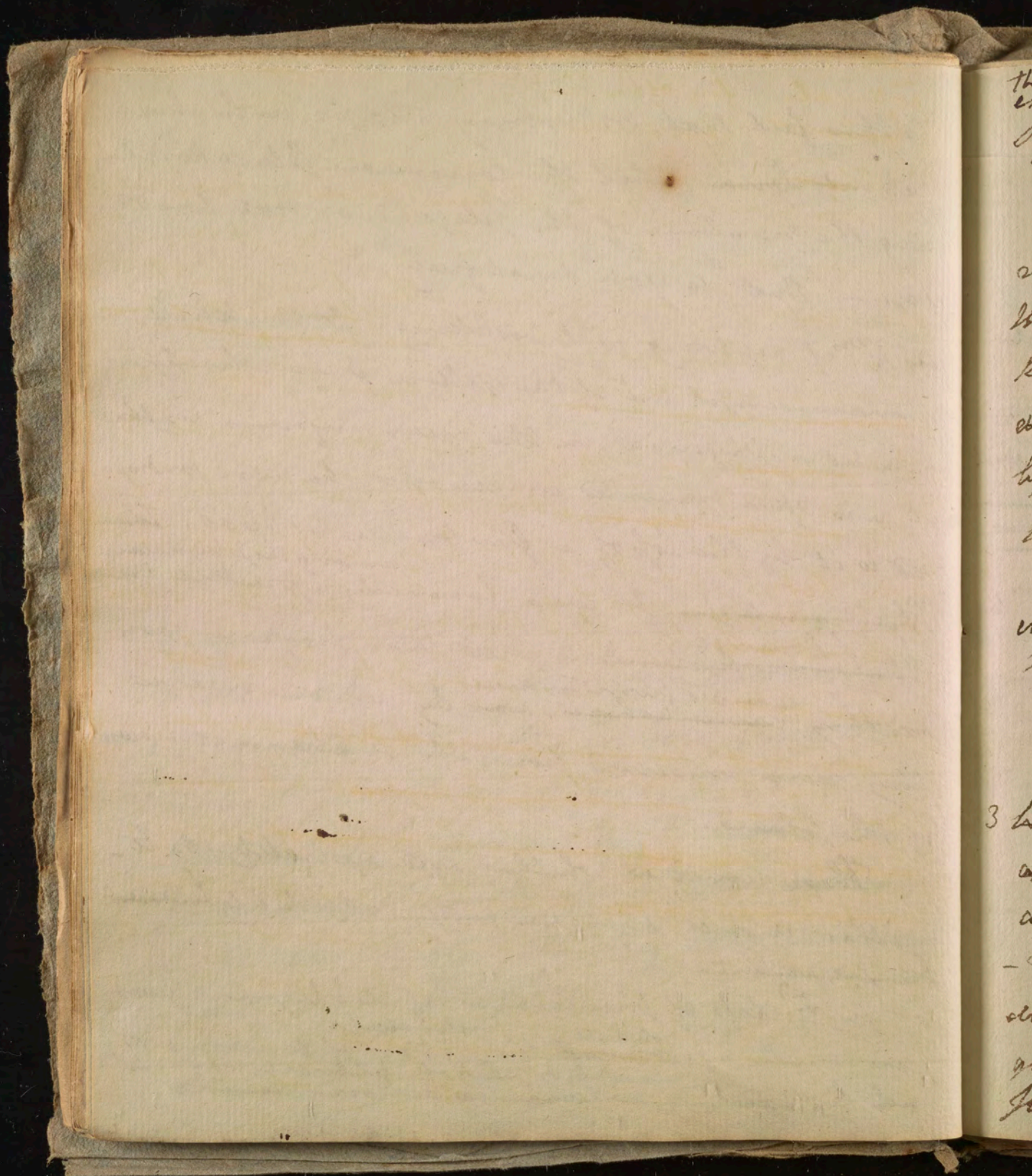
a 4<sup>th</sup> of depleting is Bloodletting. Dr Mitchell in  
a manuscript Acc<sup>t</sup> of the yellow fever which pre-  
-vailed in Virginia in the year informs us that  
it was often prevented in persons who were predispo-  
-sed to it by the loss of a few ounces of blood. Then

~~The French too~~ It was formerly a practice <sup>among the physicians</sup> in  
~~the French Islands~~ <sup>the Dominos</sup> to bleed their troops as soon  
as they <sup>arrived from France</sup> ~~came ashore~~, and by which means  
they were preserved from the malignant disease  
of the Island.

These remedies whether used separately, or to-  
-gether induce such an artificial debility ~~in the~~  
~~two pages to~~

a II: Class of preventives of malignant fever  
are such as <sup>obviate</sup> ~~prevent~~ the <sup>intestinal</sup> action of various malarial  
by exciting a <sup>general or partial</sup> ~~concomitant~~ action ~~in the~~







the external surface of the body. 28

~~System~~. These are

~~These~~

1 The Warm Bath. I have known this grateful remedy used with success in our city. It serves the double purpose of keeping the pores open by ~~the~~ <sup>the</sup> depending ~~then~~ keeping the skin clean, as well as ~~keeping regular~~

~~determinations to the~~ vital organs from disease by ~~keeping~~ inviting its predisposing cause to the ~~top~~ <sup>top</sup> ~~surface~~ <sup>external surface</sup> of the body. 2<sup>nd</sup> Washing the body with salt water every morning & evening

~~and~~ ~~has~~ had the same salutary effect.

~~The bath~~ in the West India Islands. ~~of~~

~~accidents~~ ~~The application of oil to the body~~

3 ~~has~~ <sup>Appointing the body with</sup> ~~been not~~ <sup>whether to include</sup> oil when ~~has been used~~ with success ~~applied to the body~~ <sup>of producing a</sup> centrifugal ~~an external~~ <sup>determinations</sup> of the fluids.

- The natives of Africa use it with advantage during their sickly seasons. It has lately been <sup>used</sup> great <sup>effect</sup> ~~help~~ in the <sup>preventing</sup> ~~forming~~ stage of the plague. Its efficacy was suggested first by ~~no~~ <sup>an</sup> oil man



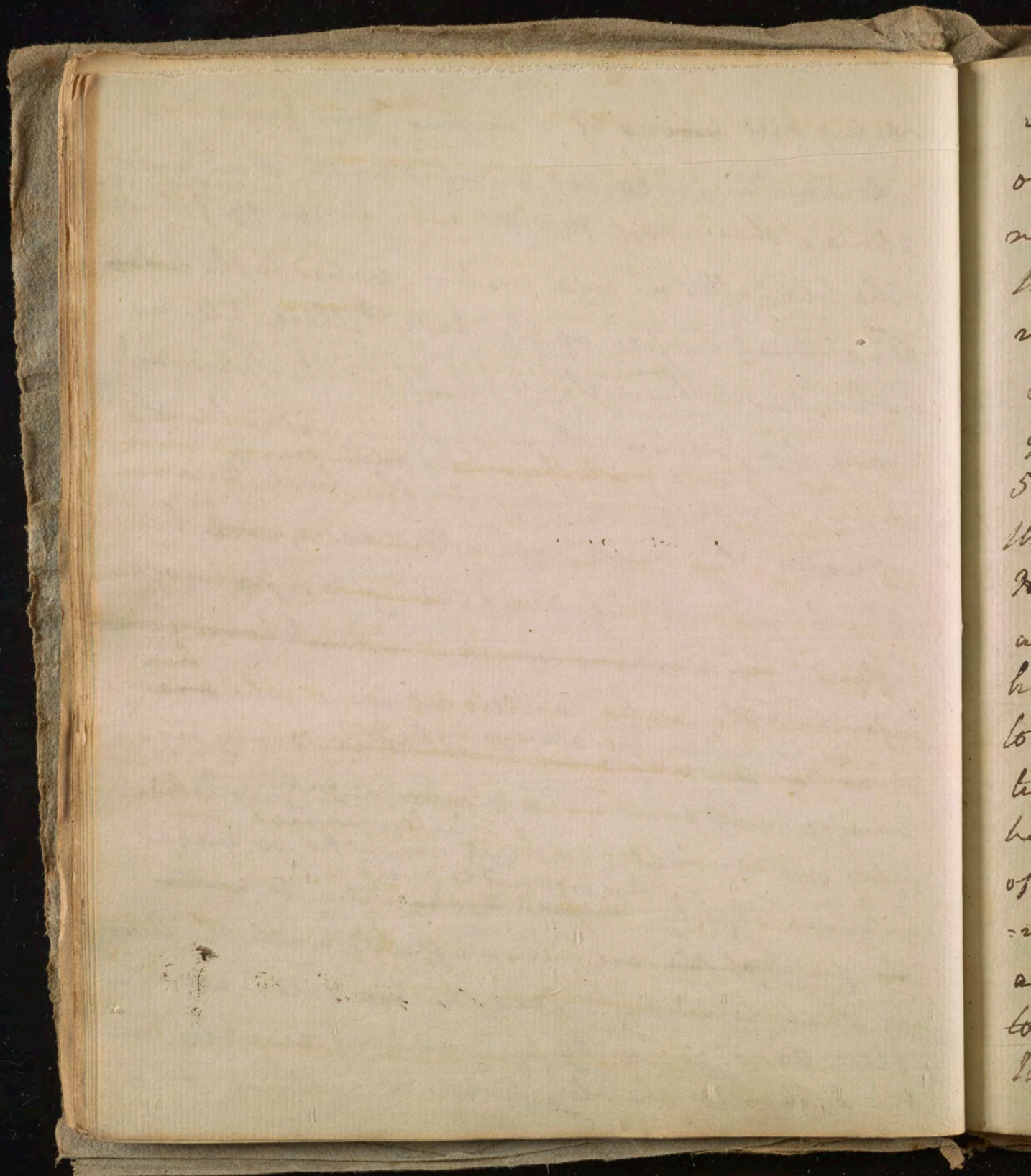
v 4  
those  
Dr Baynard has left it upon record that persons who  
lived in ~~water~~ watermills, also water men - Bargesmen  
& fishermen <sup>or in dabbling in cold water</sup>  
who were employed on the river were rarely infected <sup>with it</sup>  
by the plague of 1665, and that but two persons died on  
London Bridge. ~~with it~~ ~~The area Dr says was given~~  
~~by the Dr for the salutary effects of the water drawn over~~  
~~notice. His acts are by cap: 224~~ The Ablutions <sup>require the</sup>  
<sup>enjoined by the Jewish</sup> ~~enjoined by the Jewish~~ <sup>whom</sup> religious <sup>the</sup>  
<sup>same salutary</sup> ~~same purpose~~ <sup>same purpose</sup>. ~~Alvin says people who dabble much in~~  
~~water escape it.~~ ~~Clean hands in business he to be advised.~~



having died ~~during~~ of it during four years in  
 which time 100,000 perished with it in Egypt  
 alone. <sup>in escaping it.</sup> Olivier says - the Butter men are equally fortunate.

4 The Cold Bath, or Cold water applied to the ~~whole~~  
 External surface of the body. Ulloa tells us  
 in his travels through Cuba, that the Spaniards  
 make it a practice when partially wetted by the  
 rain, <sup>to</sup> plunge themselves <sup>with their wet cloths on</sup> into the first stream  
 of water they meet with afterwards, ~~with~~ by  
 which means they avoid taking the fever of the  
 Island. ~~The African tribes have been~~  
<sup>lives</sup> informed. The water carriers at Cairo whose  
 cloths <sup>are always wet</sup> ~~are always wet~~ Volney says  
 uniformly escape the plague. Dr Chrischolin  
 informs us that those negroes, who go naked,  
 and are thereby <sup>less disposed to avoid</sup> ~~exposed to the~~ rain, & ~~water~~  
 the water, ~~of the~~ are never affected with the fever  
 of that country. Does the ~~hot~~ cold water in  
 these cases act only by producing reaction in  
 the system, & thereby fortify it against the



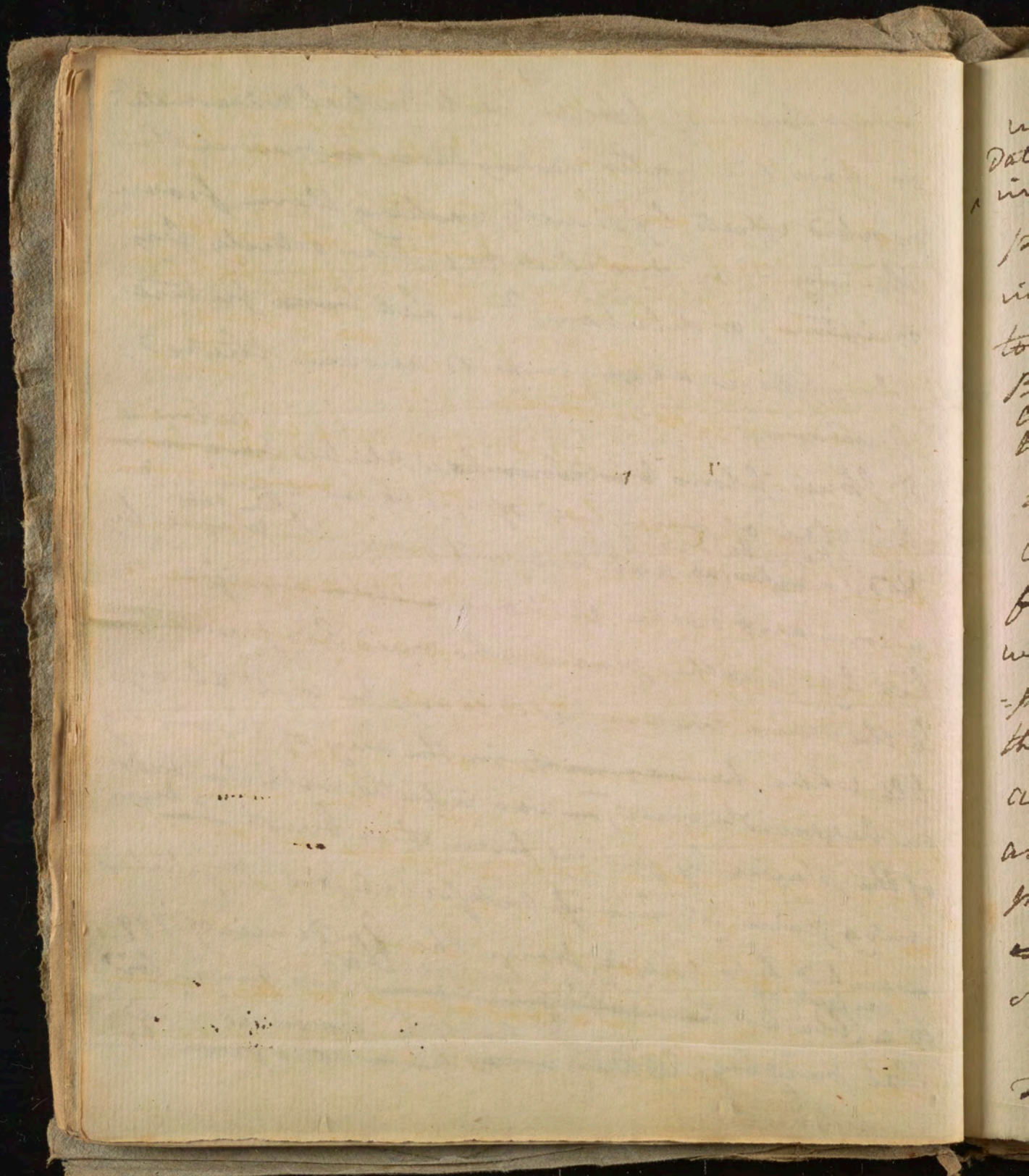




impregnation of ~~fecible~~ pestilential miasmata?  
 or does the water ~~destroy them~~ prevent their  
 noxious effects by simply washing them from  
 the body — or does it destroy their activity by  
 mixture, or dilution? — Let ~~time~~ future  
 observations & experiments answer these  
 questions.

5 Issues, setons & ~~old sores~~ & blisters <sup>belong to</sup> ~~have been~~  
 this class of preventives of malignant fever. In  
 I have said vol. 5 p 124, <sup>in 1665</sup>  
 Hodges ~~defected~~ was preserved from the plague by  
 a constant discharge from a ~~disch~~ an issue in  
 his leg. Another person who owed his preservation  
 to the same means, used to say he could always  
 tell when ~~he was with~~ in the army of the company  
 he happened to meet, <sup>he</sup> was infected with the seeds  
 of the plague by feeling from their breath, <sup>a burn-</sup>  
 ing pain in his ~~if~~ artificial fore. Dr Gallus  
 ascribed his escape from the Epidemic of 1799  
 to a <sup>mercurial</sup> blister ~~which he applied to~~ <sup>on</sup> his arm. For  
 that purpose. Dr Boerhaave ~~was~~ <sup>in a letter from Dr</sup>

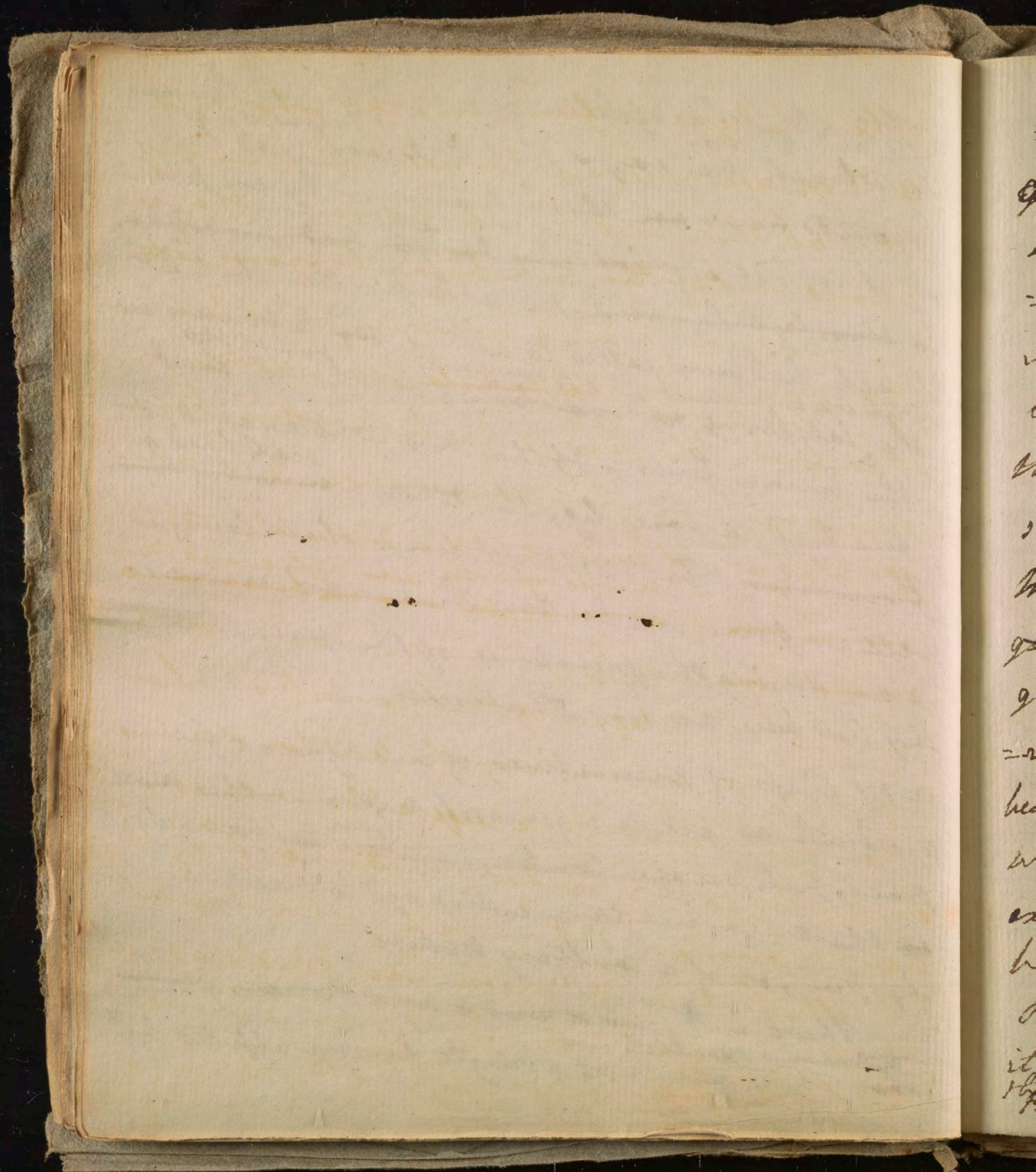














the malignant fever in 1793 who used  
 of these vegetables in his diet. The escape of  
 several thousand french citizens who com-  
 -posed part of the inhabitants of our city  
 in that year, was ascribed in part to their  
 liberal use of these ~~article~~ condiments in  
 their food. The Jews, it has been often been  
 said, have owed their preservation to it from  
 the plagues of Europe. It is probable the  
~~general use of onion~~ <sup>whose onion was introduced there</sup>  
~~general use of onion~~ <sup>general use of onion</sup> ~~was in use~~  
 -riating the plagues of that country. I have  
 been at a loss to know why the Author of nature  
 who has endowed these vegetables with so many  
 excellent qualities for diet & medicine, should  
 have accompanied them with such a disagreeable  
 smell. Perhaps the reason was kindly to force  
 it into universal use, for it is unmarshable,  
<sup>tho</sup> ~~that~~ <sup>small</sup> of it is imperceptible to those who



✓ The air extracted from fermenting wines,  
during a plentiful vintage once checked the  
ravages of a plague in Germany - taught  
by Salammun. ~~in 1709?~~  
2 # small doses of Colomel ~~have no general use.~~ <sup>taken so as gently to</sup>  
affect the <sup>breath or gums</sup> ~~mouth~~, have in several instances  
prevented attacks of ~~an~~ Epidemic malign<sup>t</sup> fevers. It  
preserved the crew of a Russian Ship at Plymouth  
in the year 1771 from a fever generated by filth in  
her hold. In a letter which I rec<sup>d</sup> from Capt<sup>t</sup> Furston  
in the year 1797, he informed me that at Batavia  
a old & respectable merchant <sup>at Batavia</sup> had advised him he had  
been preserved by it <sup>in good health</sup> ~~it~~ <sup>it</sup> ~~of~~ <sup>above</sup> 30 years in  
~~the East Indies~~ <sup>the East Indies</sup>, a place where according to his Geo. Hanthorne  
half the new comers die every year of malignant fevers.

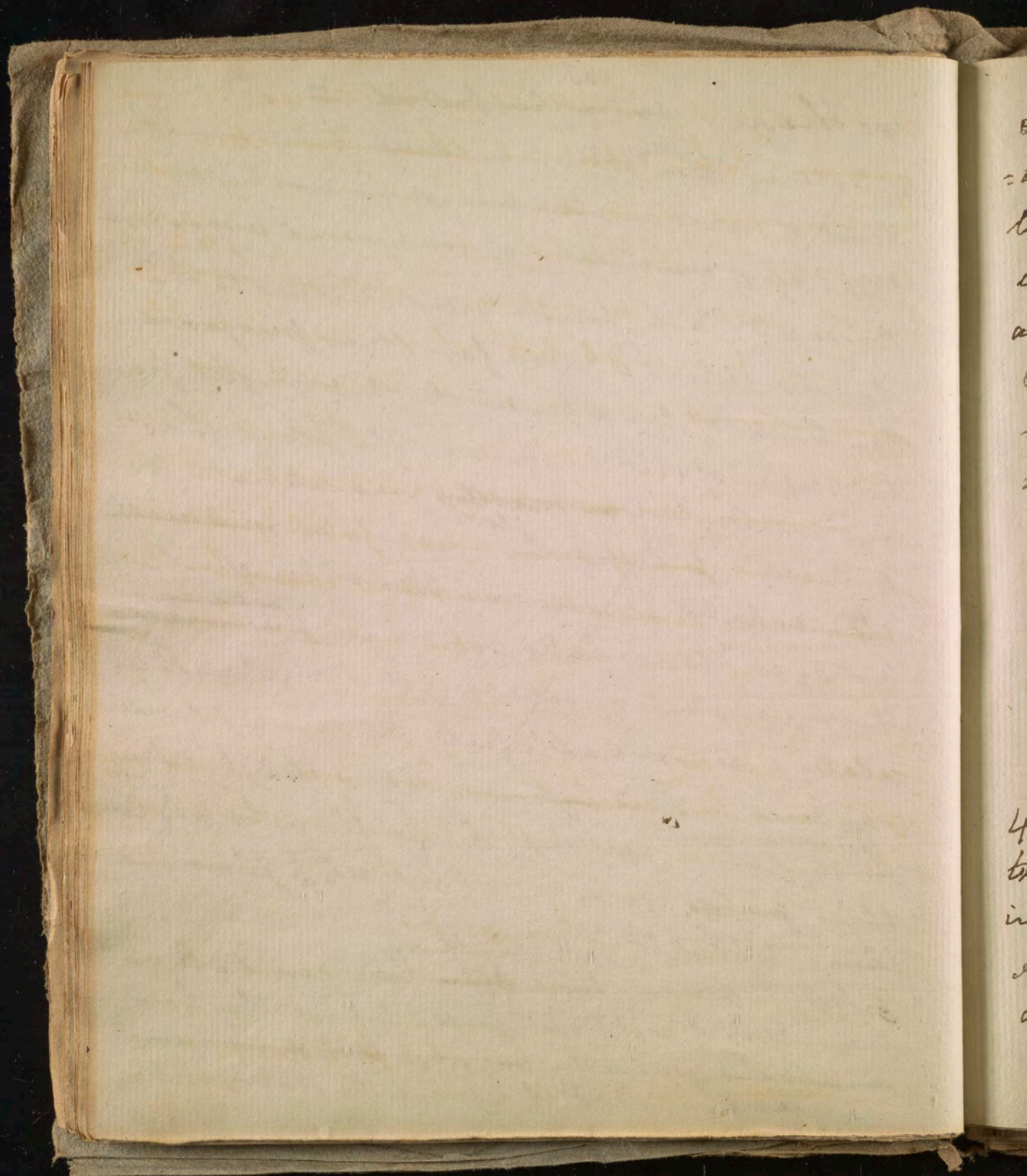


use them. ~~Under this head it~~  $\neq 2^{\text{nd}}$

[2] Certain ~~odors~~ <sup>matters</sup> which act powerful upon the sense of smelling have been found ~~to~~ belong to this class of preventives of malignant fevers. Mr Bruce & DeClash ascribe great virtues to the smoke of Coal & wood for this purpose. The smell of tar defended the shipwrights from the plague of 1665 in London. The Island of Lemnos says Mr Boyle ~~was healthy~~ <sup>was celebrated for</sup> its healthiness before the trees which ~~produced the~~ <sup>close</sup> odor exhaled a constant odor through it, were destroyed. <sup>acted as</sup> Even fetid odors have ~~produced~~ <sup>been</sup> the same salutary effect. of this Ambrose Paracelsus relates a remarkable fact. He says a plague was once checked by in a city of Italy by killing a large number of all the cats & dogs, & suffering them to exhale their ~~putrid~~ <sup>fetor</sup> in the streets. I have said ~~these~~ <sup>how do they all act?</sup> 1. 2. 3. <sup>sometimes</sup>

3 Spirits & wine have ~~often~~ <sup>sometimes</sup> been resorted to as preventives of pestilence, but I believe they have ~~sometimes~~ <sup>generally</sup> been ~~beneficial~~ <sup>more</sup> increased, instead of lessening the predisposition

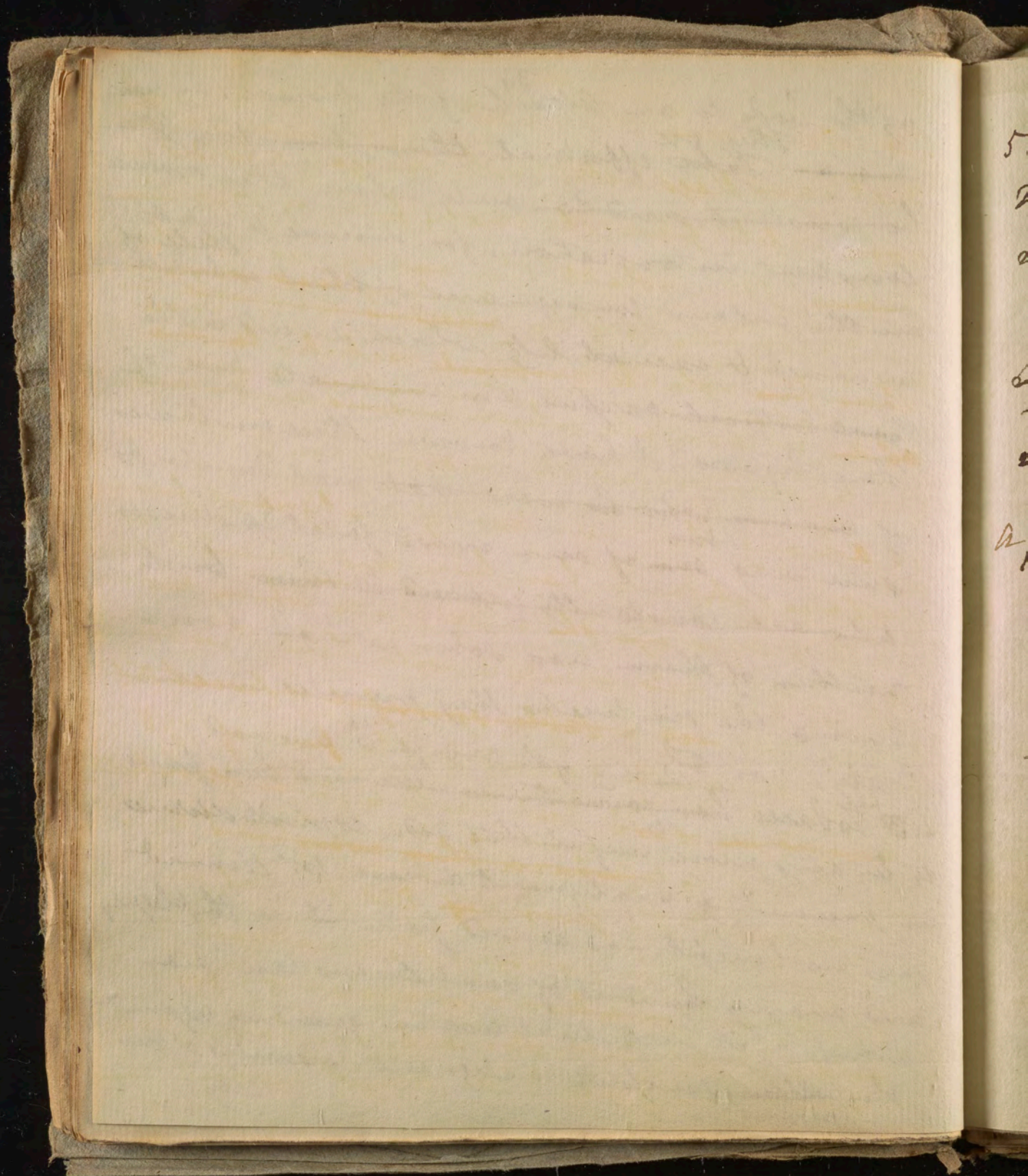






of the body to an Attack of the disease, by <sup>they are</sup> ~~being a~~ ~~too~~ effectual, ~~their stimulus~~ <sup>ph?</sup>  
~~be constant, and to only when they produce~~  
 constant intoxication, for disease & death  
 are the certain consequences of that <sup>state of</sup> ~~dolility~~  
 weakness & excitability which succeed in the  
 least ~~intemperate~~ excessive & intemperate use of  
 those liquors. I have known three instances  
 of persons ~~who were~~ <sup>two</sup> ~~habitual~~ Drunkards  
 surviving ~~one~~ of our most fatal Epidemics  
~~who are constantly exposed to this~~ but  
 neither of them was sober a single hour  
 during the six weeks they prevailed in our  
 city. nor <sup>in any of the ways in which it is used,</sup>  
 48 <sup>any</sup> Tobacco ~~has~~ <sup>has</sup> ~~some times~~ <sup>been</sup> ~~been~~ <sup>found</sup>  
 to be any more useful than Adulterated spirits  
 in preventing malignant disease. Mr Howard  
 says no benefit was derived from it in the plague,  
 and many hundred of our citizens can bear  
 witness of its ineffectual use in guarding against  
 the yellow & other malignant Epidemics of our  
 city.

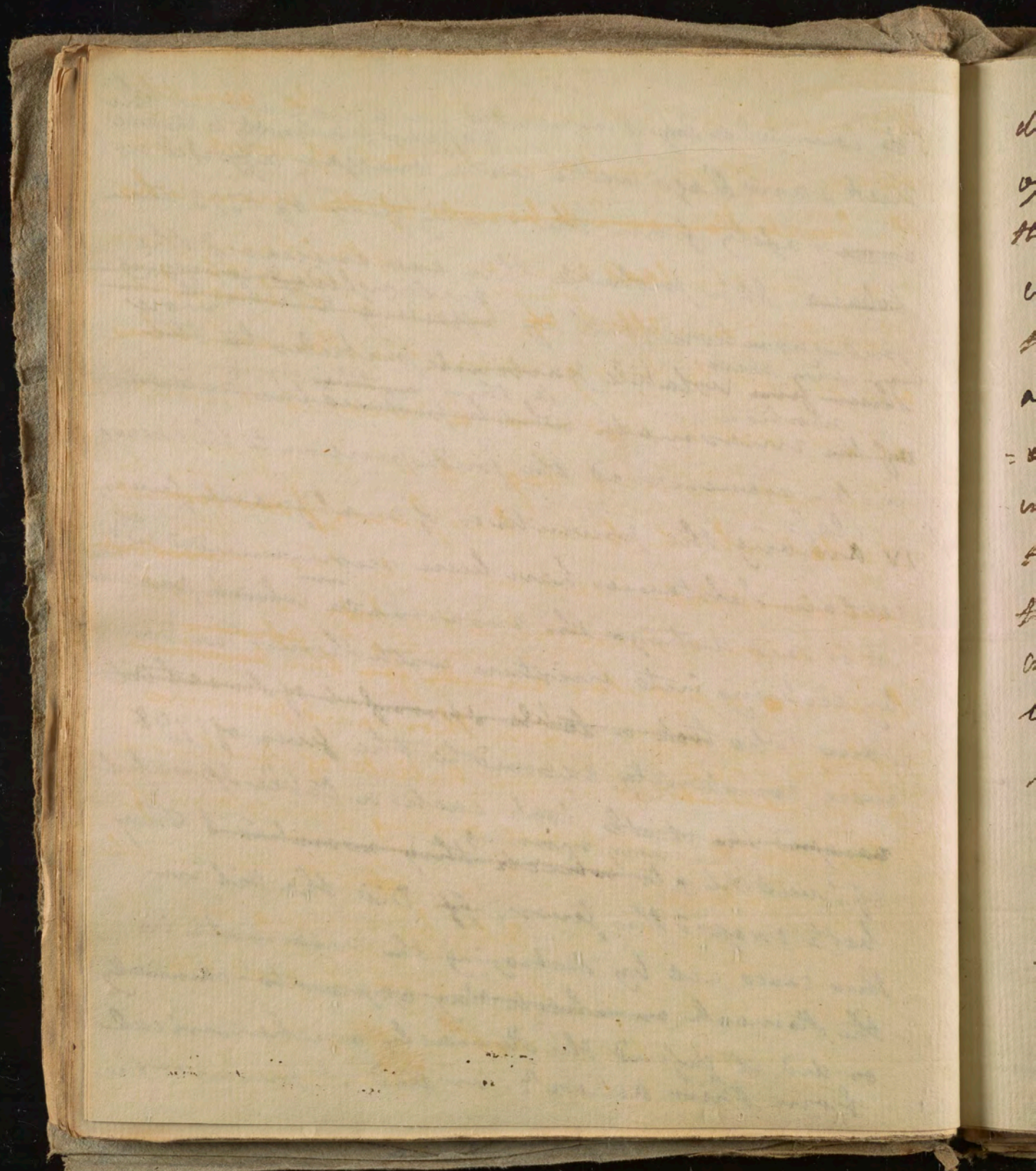














disease only by keeping the bowels gently open? It is certain the fat of pork protects the ~~bowels~~ ~~bowels~~ & bowels of the men who work in the lead mines in <sup>that metal</sup> Britain from the deleterious effects <sup>which</sup> of the fumes of lead, & are so apt to bring upon the stomach alone - also and it is ~~certain~~ <sup>is</sup> a poisoned arrow will not injure a hog, if it be arrested by the fat which lines his sides. ~~I said formerly~~ <sup>the</sup> that Sweet Oil I said formerly that Sweet Oil application of Sweet Oil to the body has lately become a popular <sup>mode of preventing</sup> remedy for the Asiatic plague, & that many thousand persons who ~~dealt~~ <sup>handled</sup> it as an article of merchandise, had escaped that disease during four years of its prevalence in Egypt. ~~It~~ Possibly the effluvia emitted by the Oil, by mixing with the miasmata may have aided its good effects in preventing the disease.

2 The vapor which issues from fresh earth



V Lubs of water in sick rooms in  
fever of 1797. see page 121 vol 5.

Bathing in salt water. nos. Bartram

Smell of the goat - Tanpits - Sal  
Am: manifest

Long interval between remote  
& predisposing causes & an attack.



has been supposed ~~to~~ destroy the miasmata  
 which produce malignant fever by entering  
 into mixture with it. <sup>subst</sup> many of the persons who  
 were employed in cleaning removing the dirt from  
 the Streets of Philad<sup>a</sup> also in digging cellars & graves  
 in the year 1793 escaped the fever of that year. In  
 the new Settlements of our Country it is said the  
 prison of ~~and~~ the Rattle snake is <sup>deprived</sup> ~~disarmed~~ of  
 its deadly effects upon the body by <sup>thrusting</sup> ~~thrusting~~  
 the wounded limb into a hole in the fresh earth.  
 The fable of Anteus is said to who rose more  
 vigorous with renewed strength from the  
 ground as often after an 100 falls, he was probably  
 intended to signify among other things, the <sup>healing</sup> ~~rest~~  
 salutary virtues contained in the ~~an~~ effluvia which issues  
 from opening the <sup>of earth</sup> ~~from the fresh~~ clods which lie immedi-  
 -ately below its surface. V

In addition to all the ~~poor~~ modes of obviating  
 an attack of malignant fever when exposed to  
 them it remains that I mention, the avoiding  
 V all its exciting causes. These are great heat,



has been said of the effects of fear  
much ~~of fear~~. The absence of it is no protec-  
tion, no more than it is from a mosquito ball in  
or the city of Philad<sup>a</sup> would not continue even  
at this day to deplore the loss of her <sup>intrepid</sup> Dutch <sup>or her</sup>  
Penningtons <sup>& her coopers</sup> and many others of her  
citizens who <sup>have fallen in the successive epidemics</sup> ~~were strangers to fear, & who~~  
of our city.

~~I have said nothing of avoiding all intercourse~~

+ In <sup>large</sup> families <sup>ch</sup> ~~in~~ <sup>are</sup> ~~is~~ <sup>are</sup> affected by the  
fever, ~~tho~~ a maid is often the only person  
who dies <sup>tho</sup> ~~is~~ <sup>owing to her being mid<sup>w</sup> by the excessive</sup>  
~~debility by the loss of attending the~~ <sup>which is obliged to perform</sup> to which  
~~she is exposed in~~ <sup>is exposed in</sup> a more  
malignant attack of the disease than those  
who ~~are~~ <sup>are</sup> branches of y<sup>e</sup> family who survive  
her.



fatigue more especially from 38  
and cold, labor or exercise not of an habitual  
abandonment of former employment.  
nature. The miasmata which produce ma-

-ignant fevers often sleep exist in an inoffensive  
latent state in the body for weeks or months, and  
break out of it without doing any harm. Unlike  
the seeds of contagious diseases, they <sup>generally</sup> require,  
with but few exceptions, an exciting cause  
to rouse them into action. These causes are

1 heat, 2 cold, 3 fatigue more especially from un-

usual labor or exercise, 4 fasting - + 5 intemperance in  
eating & drinking, and all violent emotions &  
passions of the mind. The degree of caution with  
which these exciting causes should be avoided, sh<sup>d</sup>

be regulated by the quantity, and activity of the  
miasmata which dispose themselves in the

body. ~~which dispose themselves in the~~  
~~by the signs of their presence in the body~~  
~~there are in epidemics of a moderate~~  
moderate degree of malignity, but little change  
should be necessary in the manner of  
living, than in those which are malignant  
in the highest degree. In the latter, no new



V  
It is a voice so loud  
I could speak so that the ~~the~~ <sup>as to be heard by the whole</sup>  
the shores of the Mississippi, - <sup>citizens of the whole</sup>  
~~United States~~, I would say - ~~not~~ Beware of Contagion  
- for the malignancy of our country are not propagated by  
Contagion - nor should I say, Beware of putrid exhalations -  
where the duties of human or consequently requiring:  
attendance upon the sick - But Beware of <sup>Beware of</sup> the  
campus <sup>we have been men?</sup> <sup>all the primary causes of</sup> <sup>of the human</sup> <sup>in the human</sup> <sup>disease.</sup> <sup>the prevalence of</sup>  
~~I have said nothing of avoiding all inter-~~

~~course with the sick in order to prevent the  
disease, because ~~it is~~ it is not propagated by  
contagion. In places not infected by malarial at-  
mosphere ~~it is~~ the most laborious offices of  
humanity may be performed to the sick, & in  
places <sup>where</sup> are so, the sick may be visited, & even  
attended with safety by <sup>their</sup> friends, provided they  
avoid the exciting causes of the disease before mentioned.~~



Aliment should be tested, and even customary  
 Acts of labor & business should be suspended.  
 The inhabitants of Constantinople & ~~other~~ <sup>Smyrna</sup>  
~~erroneously~~ <sup>erroneously</sup> suppose they escape the contagion of  
 the plague by shutting themselves up in their  
 houses during the time its prevalence, but  
 they owe their safety wholly to their being re-  
 moved beyond by rest, & a total exemption  
 from care & business from all its exciting  
 causes. Confinement is more certain <sup>in</sup> ~~wholly~~ <sup>only</sup>  
 effects when persons occupy the upper stories  
 of their houses. ~~only~~. The inhabitants of St.  
 Lucia Dr. Christopher says by this means often  
 escape the <sup>baneful</sup> yellow fever of that Island. It has been  
 some such is the difference in the ~~poor~~ healthiness  
 of the air ~~in the~~ between the upper & lower of  
 the stories of a house, that birds live in the  
 former, & die in the latter, during the prevalence  
 of a plague in the Eastern Countries. June 20  
 much improved with a sense of the <sup>general</sup> necessity of the  
 cooperation of exciting causes to produce the malignant  
 fever of our country that if



\* Or in other words by living above it. I  
advised ~~ending~~ <sup>in order to</sup> ~~the~~ <sup>offer them strictly to</sup> ~~the~~ <sup>the</sup> ~~storm of malignant~~ <sup>to</sup>  
~~fevers~~ <sup>into</sup> ~~Antimonial~~ <sup>Antimonial</sup> ~~fevers~~ <sup>steps over the</sup>  
System. mild Antimonial fevers should be  
opposed by means which enable the System  
to strike its roots deeper into the earth, &  
thus to prevent its being ~~being~~ <sup>being</sup> torn  
up ~~upon the roots~~ <sup>from</sup> ~~or~~ <sup>prevailing</sup> ~~ending~~ <sup>before</sup> them. The  
~~Remedies~~ <sup>Remedies</sup> for this purpose should be -

\* Dr Blane says the soldiers in the British army who  
eat salt meat  
were less subject to interfevers than the neighbouring  
people. & it is well known the American army were  
less much less afflicted with ~~fevers~~ <sup>fevers</sup> but ~~fevers~~ <sup>fevers</sup> after  
they exchange ~~their~~ <sup>their</sup> fresh for salted rations of beef  
& pork.

Dr Dow & B Idon both facts  
of change & Mexican Air  
How checked by nature by fast  
heavy ~~the~~ rains & change  
of wind. Dr Irwin. Vol. V  
of med. Jur. p. 19.



In the mild grades of the Summer & Autumnal  
fevers of the United States, the means of prevention  
are different from those which are proper to  
prevent it in its malignant forms. <sup>The latter - below it -</sup> They  
consist of such things as gently invigorate the  
system, & thus create an action superior to that  
to which the Body is <sup>exposed</sup> ~~pre-posed~~ by the miasmata  
<sup>in other words</sup>  
which ~~which~~ have been imbibed. ~~They create a~~  
~~living poison. The one leading to the storm the other leading to a storm~~  
~~current to destroy it by exposing it~~  
I cordial Diet & Drinks, Consisting of salted meat  
and fish, with a moderate quantity of wine,  
or malt liquors. <sup>†</sup> Spirits sh<sup>d</sup>. be used cautiously, for  
when used long en<sup>d</sup> to do good - they create <sup>by</sup> a habit of  
dangerous attachment to  
~~using~~ them. A strong infusion of any bitter  
<sup>in water</sup> herb taken upon an empty stomach is a cheap  
& excellent substitute for all the above liquors,  
where they cannot be ~~aff~~ afforded. ~~water is healthy~~  
~~think~~ The late <sup>Prof<sup>r</sup></sup> Gregory used to tell his pupils  
that out of 25 ~~English~~ <sup>young</sup> English men who  
were his follow students at the University of Leyden



Dr Lind tells us  
v The farmers of Oldenep, ~~not long lived~~ who  
soon went out early to their work, were  
rarely long lived, probably from inhaling  
miasmata with the morning air.

3 + all ~~the existing~~ ~~causes of fever~~ ~~formerly~~  
~~mentioned~~ ~~should be~~  
mentioned should be avoided with uncommon  
care ~~is~~ 3 days before & 3 days after the full &  
change of the moon.



~~Among whom was the late John Wilkes, ~~for~~ during~~  
~~twenty four of them escaped an Epidemic Intermittent~~  
~~upon inquiry it was found~~ While the only one ~~was~~  
~~they all drank wine daily. The only one who was~~  
 One of them only was affected by an Epidemic In-  
 -termittent which prevailed in the tower. He drank  
 water only - The

Intermittent  
 = twenty four of them escaped an Epidemic which pre-  
 -vailed in the tower, ~~they all~~ drank <sup>by</sup> wine daily. The  
 only one of their number who was affected by it  
 drank nothing but water. Bark ~~which~~ <sup>has sometimes</sup>  
 been taken daily with advantage as a preventive of the <sup>intermittent</sup> fever.  
 In addition to with these Cordial articles of Diet  
 & medicine, perspiration should be kept up by ~~warm~~  
 2<sup>d</sup> clothing. - the early morning, & the evening  
 fire should be kindled in cool & damp  
 weather, and also in the morning & evenings in  
 common sitting rooms - ~~and~~ By these means thou-  
 sands have been preserved from <sup>mild</sup> remitting and  
 chronic intermitting fevers in the most sickly seasons,  
 and countries. +

Summer &  
 The intestinal state of our Antennal



Mr Dumas tells us  
✓ The French soldiers ~~who~~ while in Egypt,  
carried pepper boxes with them to eat with  
the fruits of the Country wherever they went,  
and thereby escaped the diseases of the Country.



42

disease - requires ~~several~~ <sup>specific</sup> ~~several~~ spices  
- fir means to prevent them, different from those  
which are proper to defend the blood vessels from it.  
Unripe, and decayed fruit should be avoided while  
that which is ripe & sound should not be  
~~eaten~~ <sup>in</sup> excessive quantity. Spices particularly  
Cayenne pepper & the red peppers of our country  
should be taken ~~with the daily with food.~~ <sup>of the Country he visited made it a practice</sup>  
says the inhabitants of one ~~were persuaded to eat~~  
to in the season of bowels complaints to eat  
pepper in such quantities as to excoriate their  
throats ~~with it~~. The whole diet should at such  
times be of a cordial nature. A Dysentery <sup>prevailed</sup> ~~was the~~  
- ~~remedy~~ <sup>a</sup> few years ago to prevail ~~only in the night?~~  
of Georgetown in Maryland ~~It was confined~~ <sup>only among</sup>  
~~only to protestant families.~~ The members of the  
Catholics who lived up in conformity to one  
of the canons of their Church ~~had~~ <sup>eat much of some</sup>  
- times often of salted fish ~~were very generally~~ <sup>a dysentery broke</sup>  
escaped it. In the year 1764 while I was in ~~the~~



v It was once prevented in all the boys  
of the Bordentown Academy while it  
was epidemic in that town, by giving them  
Molasses in large quantities in their Diet  
& drinks. It probably acted only as a purge.



out in the Village of Princeton & affected many of  
 the Students of the College. ~~It~~ It was remarkable  
 it spread by all those boys who came from the cities  
 of Philad<sup>a</sup> & New York. This was ascribed to their habits  
 of living <sup>more upon</sup> ~~and~~ coffee than the <sup>farmers</sup> ~~for~~ <sup>found</sup> for  
 those articles of diet were ~~there~~ but rarely used  
 in 45 years ago in the farm houses <sup>of the</sup> ~~and~~ <sup>of the</sup> ~~and~~  
 of the States of America.

Country. It is probably to ~~this~~ the more cordial  
 Nature of the diet of the inhabitants of our  
 Cities than of Country places, that the Dysentery  
 is so ~~rare~~ rarely prevails in them. I have never  
 seen it Epidemic in Philad<sup>a</sup> -

Another means of preventing the Dysentery  
 is to avoid Costiveness, <sup>to cleanse the bowels with them</sup> ~~It is generally ascribed in~~  
 they are in a natural State. <sup>by it.</sup> A Captain of the militia of Pennsylvania  
 preserved his whole company from a Dysentery w.  
 prevailed in <sup>a part of</sup> the American Army <sup>at Amberg</sup> in 1746 by giving  
 each of them a purge of Salt Water. He preserved  
 his family & many of his neighbours some  
 years afterwards from the same disease by dividing  
 among them a few pounds of Glauber Salts. ✓



~~500 persons~~  
✓ The plague says Purchas Destroyed 500 persons by the  
day after the Nile completely overflows its ancient bounds,  
than it does the day before. For the matters which  
this was done with success by Impedoles by  
produce ~~many persons~~ <sup>these</sup> may be washed away by larger  
streams of water? Impedoles checked the plague  
at Schiris by pouring the streams of two neighboring  
rivers upon the fifts which produced it. ✓ Purchas  
tells us the plague <sup>that</sup> Destroyed 500 people <sup>die</sup> by the  
day after the Nile completely overflows the  
grounds which emits putrid exhalations than  
did the day before. we above +



As the Dysentery ~~is~~ <sup>is</sup> often excited by the dampness <sup>and it, or</sup> of the night air, great care sh<sup>d</sup> be taken to defend the bowels <sup>unusually</sup> when exposed to it, to defend the bowels by <sup>more</sup> warmth, than ~~extraordinary~~ other parts of the body. The Egyptian bandage or belt sh<sup>d</sup> be used for this purpose.

II. I come now according to the order I proposed, to mention the means of ~~preventing~~ preserving whole cities, or communities from the influence of those morbid exhalations which produce the malignant forms of the summer & autumnal disease of <sup>e</sup> the United States.

As the flight of a whole city is rarely practicable, it will be necessary to seek for the means of destroying the morbid miasmata.

1. Where the <sup>putrid</sup> matters which emit them are <sup>limited</sup> to a small extent they may be <sup>removed</sup> covered, <sup>with earth or water</sup> ~~the malignant bilious fever was~~ <sup>caused</sup> ~~But~~ During the prevalence of a malignant fever it will be unsafe to remove <sup>filthy matters</sup> ~~them~~. A plague was generated by an attempt to clean the filth ~~from~~ the which had accumulated



✓ by means of mixture, or by creating  
a new action in the system. The air  
extracted from fermenting Wines during  
a plentiful Vintage is said once to have  
checked the ravages of a plague in Geneva.  
- my. Ambrose Parey ~~the effluvia~~ says the plague was  
once checked ~~by~~ in a city in Italy by killing  
all the Cats & Dogs in the place, & suffering  
them to putrefy in the Streets. The yellow fever  
has never appeared in the Salt ~~Benicovich~~  
marshes near this city, & rarely in the  
vicinity of <sup>near the</sup> ~~Lampitta~~ in its suburbs - perhaps  
from the effluvia emitted by them. It  
has been said that the plague has never visited  
London since the use of Sea Coal for fuel.  
It is possible its smoke may have been useful,  
but other causes have contributed to prevent it, former-  
- by mentioned. -



on the banks of the waters which surround the City of Mantua during the summer & autumnal months. Even a shower of rain by disturbing a pellicle which sometimes is formed over ~~putrid~~ putrid matters, has ~~let~~ more than once let loose ~~so~~ exhalations that ~~the~~ have produced a pestilential disease.

2 Lime has been found to be a powerful Antidote to ~~putrid~~ ~~the~~ the Air extricated by putrefaction. It has often been thrown into privies with Obvi-

-ous Advantage in sickly seasons. How far it might be employed to destroy the foul Air of <sup>Ships - Cellars</sup> Docks, & common places ~~remains~~ remains yet to be determined by future experiments.

3 <sup>River side</sup> Impregnating the Air ~~with~~ <sup>with certain effluvia</sup> ~~of~~ <sup>which acts</sup> ~~either~~ <sup>either</sup> by destroying miasmata, ✓

4 Mr. Moreau has lately proposed the muriatic Gas as a means of destroying miasmata. However effectual this & the vitriolic Gas may be in



V of preventing pestilential diseases. His  
name like Varro a Roman general was  
exposed with a large fleet & army at Cor-  
-ra to a malignant fever. He discovered the  
cause of the miasmata which produced it  
to be from the south - in consequence of  
which he fastened up all the southern  
windows & doors of the houses in which  
his troops were quartered, & opened new ones  
to the north, by which means he preserved  
his troops from the fever which prevailed  
in all the other houses of the neighborhood.

Mr Howard advises keeping the doors & windows  
of houses exposed to the plague, constantly shut,  
~~during~~ except during the period of sunshine.







+ Interposing Rivers - water &c.

V ~~Describes~~ In the Character given by Luther  
of Pope Julius, he ~~ascribes to~~ says he kept  
the Streets of Rome, so clean & sweet, that  
there <sup>were</sup> ~~was~~ no plagues, nor sicknesses During  
his time."

~~Rome During the time of Pope Julius 2<sup>nd</sup>~~  
~~see Luther -~~



47 who relates this fact, says heaven  
London. "Heaven says Dr Hedges, met for the mistake  
of the citizens & kindling them, & mercifully put  
them out, with Showers of rain." +

III We come now in the last place to mention  
the means of exterminating the <sup>Injurious &</sup> ~~from~~ <sup>returning</sup>  
diseases ~~of our country~~ by removing its causes.

~~These~~ These means are

1 The removal of all those <sup>sources of putrid</sup>  
unhealthy exhalations <sup>animal exhalations</sup>  
from <sup>formerly</sup> ~~our cities~~ <sup>from</sup>  
which are capable of  
generating the <sup>pestilence</sup> ~~filth~~ <sup>pestilence</sup>  
which is the cause of the <sup>pestilence</sup> ~~pestilence~~  
the cities of Holland & the  
theatres of disease, have become healthy by these  
means. <sup>Many of the</sup> ~~The~~ institutions of the Jewish nation  
removing filth of all kinds from  
camps & cities are well worthy of our notice & imitation,  
for Moses the <sup>enlightened</sup> ~~author~~ <sup>author</sup> of them was

a firm believer in the Domestic Origin of pestilence  
- tial diseases. <sup>the provinces of</sup> ~~Holland~~ <sup>held their</sup> exemption from

the plague, only by the tenure of their cleanliness.  
The city of Oxford <sup>was prepared to</sup> ~~was~~ escaped the plague

which assailed London & many other parts of



which had <sup>afflicted</sup>  
~~been visited~~ nearly every year for above half  
a century, ~~has since~~ by the plague has



48

England in the year 1665 <sup>48</sup> so as to afford an  
 Royal family of Eng<sup>d</sup> Britain  
 Asylum to the ~~work~~ <sup>work</sup> from the plague  
 all parts of

which ravaged London & many other parts of  
Eng. in the year 1665 <sup>only</sup> in consequence of  
its being ~~recently~~ <sup>some years before</sup> cleansed by the Bishop  
of Winchester

2 In the construction of ~~our~~ cities, ~~the~~ narrow  
streets & alleys should be carefully avoided. <sup>Deep</sup> ~~a large~~

Streets & alleys should be enlarged  
 lots should be left for a yard, or garden for  
 habitation channels &c. many of the contents of  
 every house & and a great advantage would  
 arise - could cities be built so as to leave vacant  
 equal number & size to

rise, could cities be built so  
between ~~equal to those~~ <sup>equal</sup> in number & rise to  
those which were covered with houses. Perhaps  
a Cheshire board

those which were covered with  
~~the~~ the light & dark squares of a checker board  
 might serve as a model for ~~and~~ <sup>the execution</sup> ~~and~~ a city  
 of such a plan for ~~a city~~ all cities which are  
 to be made for people. The city of

might serve as a model  
of such a plan for ~~a city~~ all cities which are  
to contain more than 5000 people. The city of  
V. ~~is~~ <sup>it since</sup> ~~has~~ <sup>been</sup> ~~the place since~~

London had never seen visitors of  
the destruction of the <sup>by fire</sup> ~~burned closed wooden~~

buildings in the year 1866. He even seemed as if  
appressed by the sufferings of <sup>poor</sup> ~~that~~ <sup>the</sup> citizens



v

I have met with many excellent quotations from  
 a work upon this part of our subject by Torzetti a  
 physician of Italy from which I have no doubt much  
 useful information might be obtained. <sup>The Rev. Th. Hall</sup> A gentleman  
 at Leghorn <sup>the Rev. Th. Hall</sup> to whom I made an unsuccessful ap-  
 plication for this work speaks of it in his answer  
 to my letter in the following terms. "Torzetti has  
 in such high estimation that the late Emperor  
 Leopold when grand Duke of Tuscany caused it to  
 be reprinted at his own expense, & presented it to  
 his friends. The ~~consequence~~ consequence of this, was  
 it influenced the proprietors of low, marshy  
 lands in the neighbourhood <sup>of the River Arno</sup> to drain & cultivate  
 them, and thereby rendered ~~them~~ the abode of  
<sup>noxious</sup> ~~pestilential~~ air, and malignant fevers, a tres-  
 sential paradise"

Plague checked by Quins &c







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becoming by its exhalations a source of our  
 disease. a law to ~~make~~ Phys: report on the  
 first cases of fever

In speaking of the means of preventing  
 & exterminating the malignant forms of our ~~miasm~~ fevers,

it may appear strange that I have said  
 nothing of the efficacy of Quarantines to ~~defend~~ ~~our~~  
~~cities~~ ~~from~~ for that purpose. where I now

addressing ~~before~~ an audience composed  
 exclusively of citizens of Philadelphia, I would  
 do homage to their ~~prejudices~~ by a respectful & melancholly silence,  
 be silent upon this subject, & I would request  
 permission to retire for a few minutes to in-

-de Deplore in secret the evils which that belief  
 in Quarantines has done to our country  
 in our ~~country~~

But as I am ~~addressing~~ <sup>speaking to</sup> gentlemen of ~~unprejudiced~~ <sup>gentle</sup> from  
~~responsibility~~ of citizens of other states, ~~collected from~~  
~~variously all the States in the Union,~~ <sup>and whose</sup>  
 whose minds are free of prejudice ~~open to reason~~  
~~opinions are yet to form upon this~~ <sup>the dictates of reason,</sup>  
~~are unprejudiced upon this subject,~~ I feel myself

safe in asserting that they are ~~a~~ <sup>quarantines are of</sup>  
 no efficacy in preventing ~~the~~ our malignant



to  
 Venetian in our country, & that hundred  
 who would blush to write in the cry of  
 "great is Diana of Ephesus" are <sup>assembled</sup> not to ex-  
 -claim; "great are <sup>the</sup> quarantines of all  
 our states." knocked out brains,

Should ~~and~~ I attempt to enumerate all the  
 evils which ~~a belief in~~ this error has introdu-  
 -ced into our country, my lecture would not end  
 with the day. Thousands of our citizens have  
 been conveyed by it to premature graves. Millions  
 of Dollars have been wasted by its ~~very~~ fatal in-  
 -fluence upon the public mind. By unnecessarily  
 shutting up the ports of foreign countries against  
 our ships, it has impaired our commerce, agri-  
 -culture & manufactures. But this is not all.  
 The belief in the contagious nature of the yellow  
 fever which is ~~so~~ so solemnly <sup>and</sup> enforced by  
 quarantines has demoralized our citizens,  
 & in some instances petrified their very hearts.



bilious fevers, in any other way than by excluding  
 the foul air that is generated in the hold of a ship  
 which may be done as easily in a single day as  
 as in weeks or months. They originated in  
 error, and have been kept up for <sup>many</sup> ~~many~~ <sup>years</sup>  
 by a ~~superstition~~ <sup>supine</sup> & traditional faith in  
 the opinions and conduct of our ancestors in  
 medicine. They do violence to reason & Science  
 by ~~disproving~~ <sup>rejecting</sup> the connection between all the  
 changes which take place ~~between~~ in the animal  
 vegetable & aerial kingdoms, and the existence  
 of pestilence, and thus ~~defeat~~ <sup>under</sup> ~~the~~ <sup>the</sup> ~~abortive~~  
 a large portion of the goodness of heaven <sup>to</sup>  
 the children of men. In a word, they <sup>produce</sup> ~~are~~ ~~the~~  
 all the evils of the fatalism of the Turks un-  
 der a ~~spurious~~ <sup>popular</sup> & imposing  
 name. In contemplating the prevalence of a  
 general ~~prevailing~~ belief in quarantines in the  
 highest & most respectable classes of citizens  
~~that~~ we are disposed to believe there has been  
 a <sup>translation</sup> ~~metastasis~~ of Superstition from Religion



future ravages of war ~~upon the lives of our~~  
the depopulation of our cities from the fifth  
now generating in <sup>their</sup> bowels - the <sup>destruction</sup> decay of our  
trade, & the universal poverty, & distress of our country  
population by the death of ~~thousands of our citizens~~  
~~scattered from the continuance~~ <sup>the</sup> ~~increase~~ <sup>the</sup> of our  
~~in our hospitals - and the~~ <sup>disturbance</sup> ~~from the operation~~  
~~disturbance among us,~~  
- did not a ray of light break in from the  
east to ~~dispel~~ <sup>dispel</sup> the gloom which such a  
disturbing anticipations are calculated to create.  
~~was that~~ <sup>the scourge</sup> ~~of our globe~~  
This - the plague, <sup>which has been</sup> ~~believed from~~  
~~has lately been discovered~~ <sup>proved</sup> ~~to be a disease of our~~  
~~of domestic exhalations & incapable of being com-~~  
~~unicated by contagion.~~ <sup>It is equally</sup> ~~subject to destruction.~~  
discovery more pregnant with blessings to man-  
kind, has ~~never~~  <sup>seldom</sup> been made. ~~even the~~ <sup>its</sup> ~~destruction~~ <sup>universal</sup>



It ~~also~~ has extinguished friendships - anni-  
-hilated religion - and even violated the  
sacrament of nature by resisting the loud &  
vehement cries of filial and parental blood.

In contemplating Gent. all the present  
operation of all the causes which have pro-  
-duced the public & private calamities that  
have been mentioned, I <sup>should</sup> feel disposed to retire  
from your presence, & deplore in secret  
the future depopulation of our cities, ~~from~~  
~~the filth now generating in them~~ the destruc-  
-tion of our commerce, & the universal poverty  
& distress of our <sup>citizens</sup> ~~country~~ from the continuance  
& increase of all the causes of domestic pes-  
-tilence among us, - did not a ray of light  
break in from the East to dispel the gloom  
which such anticipations are calculated  
to create — Yes the plague, the scourge  
& terror of our globe, has been proved, like  
our ~~yellow~~ American yellow fever, to be the



U ~~consequence~~ of the ~~Physicians~~ <sup>philosophers</sup> & ~~Statesmen~~ <sup>concerning</sup>  
of two great & hostile nations ~~uniting~~ <sup>uniting</sup> it  
to ~~indefinite~~ <sup>indefinite</sup> it our part of the world.

V It is impossible to describe all the benefits  
which await this achievement of our power  
our pestilence upon the affairs of our globe.  
Large cities will no longer be the hotbeds of dis-  
ease and death. Extensive regions of low and  
marshy grounds ~~our~~ <sup>our</sup> ~~turning~~ <sup>turning</sup> = ~~letting~~  
v abashed by the defeat which he has met with  
from Siamese in Egypt, -

+ Its influence must be felt in every part of the  
United States, ~~and~~ <sup>all the laws which</sup> ~~for the~~ <sup>relating</sup> ~~our~~ <sup>to</sup> ~~unlignent~~ <sup>the</sup> ~~power~~  
to the ~~generation~~ <sup>effect</sup> ~~of~~ <sup>of</sup> the Eastern ~~plague~~  
~~to the~~ <sup>to the</sup> ~~our~~ <sup>our</sup> ~~unlignent~~ <sup>unlignent</sup> ~~power~~ <sup>power</sup> is the child of  
the same ~~power~~ <sup>causes</sup> ~~and~~ <sup>and</sup> which generate the ~~pl~~ Eastern  
plague, and must submit to the same modes of



55.  
offspring of domestic exhalations, <sup>to be</sup> ~~and~~ in-  
capable of being communicated ~~of~~ by contagion.  
and of course, to be subject to destruction. A  
discovery more pregnant with blessings to man-  
kind, has seldom been made. Its universal  
adoption is ensured by the physicians, and  
philosophers of two great <sup>& hostile</sup> nations concurring  
to disseminate it over every part of the world.  
Pyramids of error, the work of superstitious  
ages and nations must fall before it, &  
rivers of tears must be dried up by it.  
No wonder death, abashed by the defeat he  
has met with from Science in Egypt, has  
lately grasped the sword of war with tenfold  
bravery, as if conscious it was the only re-  
maining instrument of the general, and  
sudden destruction of the human race.

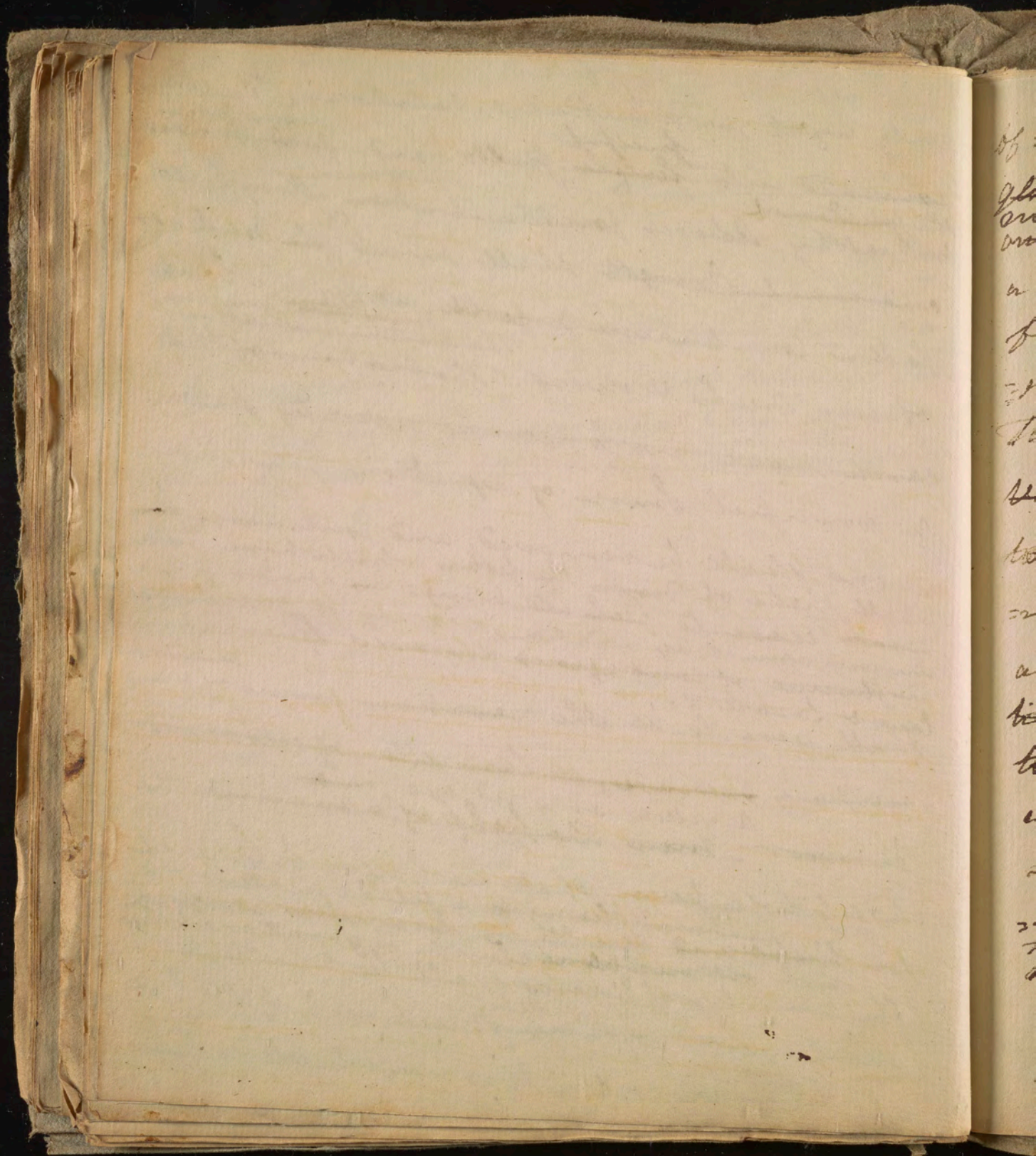


over  
v = tree of Antimonial Air, ~~and~~ shall no  
more be damped by Antimonial richness. <sup>an</sup> ~~the~~  
accidental existence of a case of bilious fever  
shall expose the place where it <sup>is generated</sup> exists to obloquy  
& disgrace.



only with pestilential exhalations, shall be  
 converted into <sup>fruitful</sup> fields, and <sup>viewed with</sup> afford <sup>of men</sup> ~~pleasant~~ <sup>of men</sup> ~~healthy~~ <sup>Rosy health</sup> ~~Adoles for the children~~  
 and ~~manly~~ <sup>Strength</sup> shall meet the pale, or  
 fallow Countenance ~~of the~~ <sup>upon the banks</sup> ~~of the~~ <sup>The autumn</sup> ~~of the~~  
 of our Creeks & rivers. The ~~creation~~ <sup>of the</sup>  
~~earth should no longer be separated from~~  
 a powerful source of repulsion between na-  
 tions shall be removed, and Commerce ~~from~~  
 shall shake of ~~droops~~ <sup>the fetters which have been</sup>  
~~its~~ <sup>cease to feel its wings in under the</sup>  
~~imposed upon it by vibrations & expansive~~ <sup>quarantine</sup>  
~~influence of contagious diseases. Quarantines~~  
~~houses & Lazarettos.~~ <sup>houses</sup>  
 shall cease to be the ~~repulsion~~ <sup>houses</sup> ~~houses~~ <sup>houses</sup>  
~~necessary expense, or Lazarettos of olden times~~  
~~discovers~~ <sup>a yellow, or a red eye, in a</sup>  
~~man~~ <sup>The sight of a man in the</sup>  
~~chilly fit of a fever, shall no longer be a signal~~  
~~for flight and leaving to a fellow creature to~~  
~~perish without~~ <sup>alone in a garret or a barn</sup>  
 The number of diseases shall be limited, & the  
 most mortal of them <sup>shall be</sup> struck out of the list  
 of human evils. It is impossible to hear

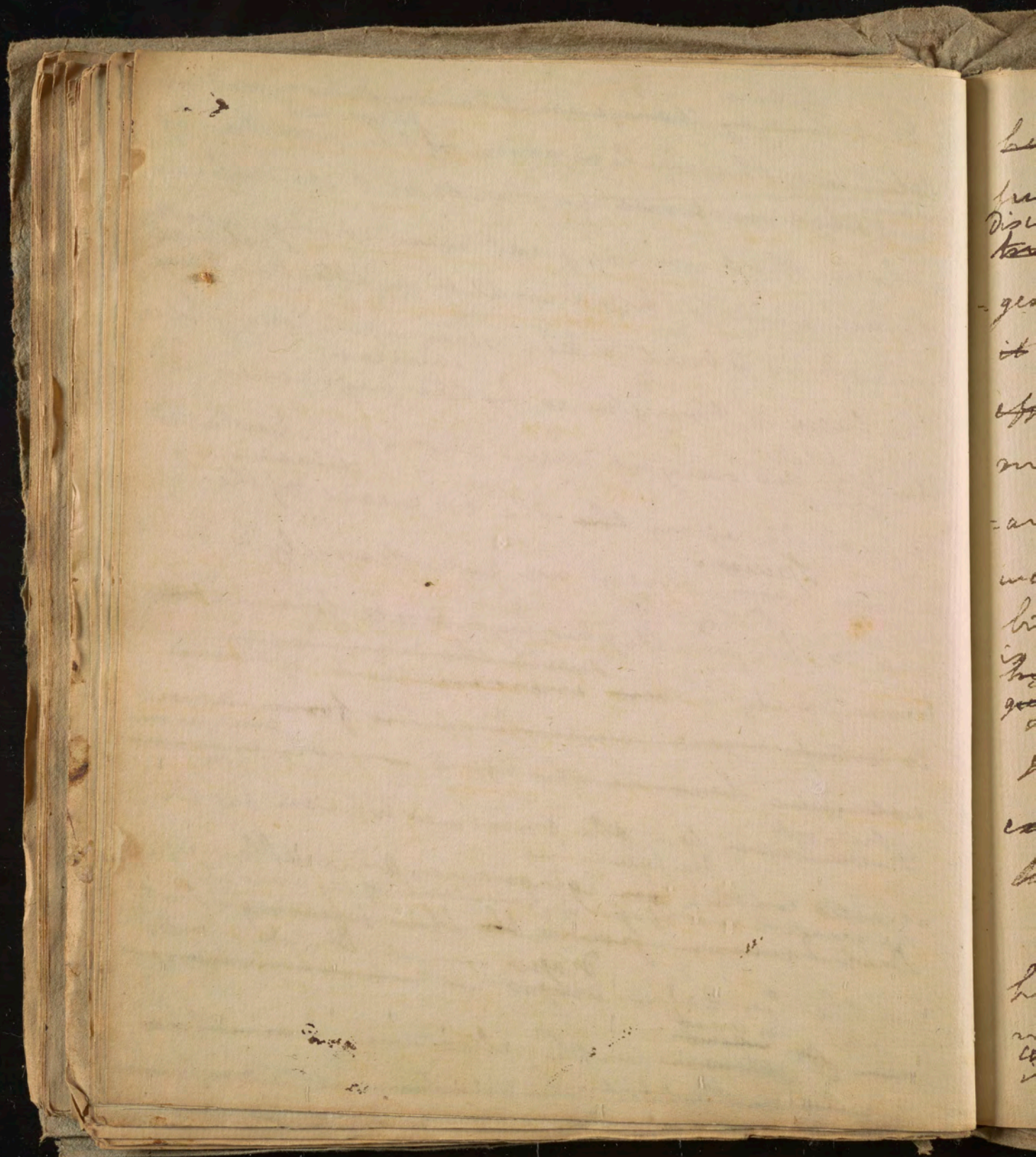






[illegible]







~~had led me~~ — the delightful prospects into  
 futurity, to which <sup>as put for a greater interesting</sup> my Attachment to  
 Discovery, ~~had led me~~. — I have only to sug-  
 gest to <sup>you first</sup> ~~the members of our Society~~ that  
 it to render it, <sup>this Discovery</sup> ~~and all the other means of~~  
 effecting extensively & speedily useful, our labors  
 must second the researches of our Europe-  
 -an brethren. Let us ever recollect that  
 we are the sentinels of the health &  
 lives of our fellow citizens, and that there  
 is a grade of <sup>higher</sup> merit in cases our profession much  
<sup>greater than</sup> ~~above~~ that which consists <sup>arises from</sup>  
 the cure of diseases. It consists in destroying  
~~exterminating their causes, & thereby destroying~~  
 them, by exterminating their causes. —

For the attention with <sup>which</sup> you have  
 honored my detail of facts, I beg you to receive  
 my <sup>most</sup> grateful acknowledgments, <sup>for its defects I solicit your</sup>  
<sup>and</sup> ~~its length,~~ — I beg your forgiveness, with every best





be  
for  
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wishes for the usefulness & prosperity of our  
 Society, ~~and for the individual happiness of each~~  
 my colleagues, ~~that~~ <sup>cordial</sup> advice! on I  
 of ~~you~~ - I bid you <sup>a</sup> ~~adieu~~! ~~on~~ I  
 request each of you to accept of my most  
 cordial salutations.



